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ABSTRACT

There can be little doubt of the special importance of computers to the operation of collegiate registrar and admissions offices. The American Association of Collegiate Registrars and Admissions Officers (AACRAO) conducted this survey for the purpose of identifying and interpreting trends in the use of computers in registrar and admissions activities. This survey serves to update the status of events reported in the 1966-67 survey and to broaden the base of inquiry. Specifically, the intent of the survey was to seek answers to questions regarding (1) the trend in utilization of computers; (2) the kinds of computer equipment being utilized; (3) how they are being used; and (4) the patterns and problems of management associated with use of computers. The survey was conducted by means of a questionnaire administered to 1646 AACRAO member institutions in November 1969; responses were received from 1477 institutions. Significant trends in the use of computers are outlined. (JMF)

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ED115132

AMERICAN ASSOCIATION OF COLLEGIATE REGISTRARS AND ADMISSIONS OFFICERS

SURVEY OF THE MANAGEMENT AND UTILIZATION OF ELECTRONICS DATA PROCESSING SYSTEMS IN ADMISSION, RECORDS AND REGISTRATION

1969-70

SPONSORED BY THE ELECTRONIC COMPUTER COMMITTEE

OF THE DATA MANAGEMENT AND RESEARCH GROUP

HE 006606

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American Association of Collegiate Registrars and Admissions Officers

FIFTY-SIXTH ANNUAL MEETING, APRIL 20 - 24, 1970, NEW ORLEANS, LOUISIANA

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Members of AACRAO: February 27, 1970

Enclosed is the seventh survey on the use of computers and systems applications in registrar and admissions offices of AACRAO institutions. Our offices have come a long way since the initial survey. Over 900 institutions now report the use of computers in registrar and admissions offices as compared to a very small number of trail blazers reporting such use in the first such AACRAO survey. Many more report that they plan computer use in the future. Clearly, AACRAO needs to continue to address itself to the professional needs of its members in planning and implementing new computer based systems in admissions, registration, records and management analysis.

Since the last computer survey, Group IV of AACRAO (Data Management and Research) has completed several important projects relating to the needs of our computer oriented colleagues. Two in particular deserve mention. In 1967, a seminar on the "Management of Data for Students" (MODS) was conducted with over 50 AACRAO members in attendance. Since then, nine additional seminars have been sponsored by state and regional associations of AACRAO using the MODS seminar materials as a base. In August of this year, in cooperation with AACRAO's regionals, the second of what may become a series of such training programs will be launched to substantially update and improve the earlier seminar content and thrust. It is our hope that this newer program will extend an opportunity to every AACRAO member to attend an in-service training program on data management by annual meeting time in 1972. If you are interested in this program, please let the president [illegible] your state or regional association know so that he might plan for your state's participation.

Another Group IV project, a bibliography on selected readings on computer and college management, was completed in April 1969. Copies of this important resource for in-service training titled "Information Management Concepts" are available from AACRAO's home office.

Committees of Group IV were instrumental in structuring the enclosed survey. Findings from it will make available important new grist for future projects and programs. We are indebted to the many individuals contributing their time and energies to structuring and executing this project and to completing the survey instrument. Particular credit should go to Dr. Bogue for his handling of the project. We are sure it will have important influence on our profession.

Verner R. Ekstrom

Verner R. Ekstrom
Vice President for
Data Management and Research

AMERICAN ASSOCIATION OF COLLEGIATE REGISTRARS AND ADMISSIONS OFFICERS

SURVEY OF THE MANAGEMENT AND UTILIZATION OF ELECTRONICS DATA PROCESSING SYSTEMS IN ADMISSION, RECORDS AND REGISTRATION

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OF THE DATA MANAGEMENT AND RESEARCH GROUP

Survey Conducted by
E. G. Bogue
Director of Institutional Research
Memphis State University

ACKNOWLEDGEMENTS

Many persons have been instrumental in the production of this survey. Appreciation is extended to all those AACRAO members who gave their time in completing and returning the survey questionnaire.

Special recognition is due Naomi McCracken, chairman of the Electronics Computer Committee, and to the other members of that committee - - Dean Clark, Richard Randlett, and Edwin Walker - - for their leadership role in sponsoring the survey and assisting in its design and execution.

Many thanks go also to the members of the other committees of the Data Management and Research Group, under the direction of Verner Ekstrom, for their supportive efforts in developing the survey questionnaire and assisting in the survey followup.

I wish to acknowledge significant contributions from three members of my staff at Memphis State University: to Mrs. Virginia Weymouth for assistance in managing the collection and analysis of data, to Mr. Jerry Matthews for programming and data analysis support, and to Mrs. Dorothy Forrest for assistance in preparing the manuscript.

Finally, acknowledgement is due those administrative personnel and offices of Memphis State University who contributed to the survey project by their support in the computer printing, and mailing activities required in the execution of the survey.

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I.

PURPOSE OF THE STUDY

Of the special importance of computers to the operation of collegiate registrar and admissions offices there can be little doubt. The management of the diverse and complex activities associated with the modern admissions and registrar office would be a virtual impossibility without the supportive backup of computer based data systems. In past years, the American Association of Collegiate Registrars and Admissions Officers has conducted surveys similar to the one reported in this study; the purpose of these surveys has been to identity and interpret trends in the use of computers in registrar and admissions activities.

The last of these AACRAO surveys was conducted in 1966-67. This 1969-70 survey serves to update the status of events reported in earlier surveys and to broaden the base of inquiry. Specifically, the intent of this year's survey was to seek answers to these questions:

(1) What is the trend in utilization of computers in admissions and registrar offices?

(2) What kinds of computer equipments are being utilized?

(3) How are these computers being used?

(4) What are the patterns and problems of management associated with utilization of computers?

Before focusing on the data which assist in formulating answers to these questions, it is appropriate to mention briefly the methodology associated with the survey. Only a digest of survey procedures is here presented. A more extended critique of the survey methodology and questionnaire may be found in Appendix A.

Procedures employed in prosecuting the survey were as follows:

(1) Development of the survey questionnaire was begun in early summer of 1969, using as a foundation the instrument used in previous surveys.

(2) The questionnaire was broadened to include certain additional areas of interest and was subjected to review and critique by members of the Data Management and Research Group.

(3) A pilot copy of the questionnaire was sent to some 75 institutions in late summer of 1969, and reactions from this pilot run were used to refine the questionnaire.

(4) The final copy of the questionnaire was sent to approximately 1600 AACRAO member institutions in November 1969.

Of the 1646 institutions queried, responses were received from 1477. A response distribution by state may be found in Appendix B, and more detailed tabulations of institutional responses may be found in Appendices C and D. To an analysis of the data available from these responses we now turn.

II.

PROFILE OF COMPUTER UTILIZATION PATTERNS

A first intent of this survey was to inquire about the pattern of omputer utilization among AACRAO colleges and universities. That is, ow many and what kinds of institutions are now using computers in their dmissions, records, and registrar activities? The data of Table I permit s to formulate a response to this question. Of the 1477 respondents to his 1969-70 survey, 901 institutions, or 61.0% of the respondents, eported the use of one or more computers. These utilization data may be compared to the last survey of 1966-67 in which 41.4% of responding nstitutions reported the use of a computer.

Gains in computer utilization are particularly noticeable among he smaller enrollment institutions. For example, in the 1966-67 survey only 11.5% of institutions with an enrollment less than 1,000 reported use of a computer, whereas 28.5% of these institutions reported utilization this year. A similar trend is noted among the institutions with enrollments in the range of 1,000 to 4,999, with 69.2% in this range reporting utilization this year as compared to 44.5% in the 1966-67 survey. Thus, our data confirm an acceleration in the utilization of computers, especially among the smaller colleges.

TABLE I

RELATIONSHIP BETWEEN INSTITUTIONAL ENROLLMENT AND COMPUTER USE

Computer Use	Below 1000	1000-4999	5000-9999	10000-14999	15000-19999	20000 or Over	Total
Yes	150 (28.4)	415 (69.3)	167 (93.3)	81 (97.6)	42 (100.0)	46 (100.0)	901 (61.0)
No	378 (71.6)	184 (30.7)	12 (6.7)	2 (2.4)	0 (0)	0 (0)	576 (39.0)
Total	528	599	179	82	42	46	1477

NOTE: Data given in parentheses are percentages. Other figures are frequencies.

The trend in growth in the last few years is clearly confirmed by he data of Table II, which reveal the relationship between institutional nrollment and year of first computer use. Half of those institutions eporting the use of computers indicate that they moved to computers in he time period "1966 to present". An indication of continued growth can e seen in Table III, where 409 of the 576 institutions not currently using omputers report plans to do so within the next two years. The probabilities f this occurring would seem to be enhanced by the data of Table III which ndicate that 467 of these 576 institutions already have a computer on ampus.

A matter of additional interest in the profile of utilization atterns is the number of institutions reporting the use of more than one computer. An analysis of the data of Table IV indicate that 123 institutions report access to and use of more than one computer. And of these 123, 66 indicate that they are using more than two computers in their operation.

In summary, the response data for this year's survey reveal continued growth in the utilization of computers in college admissions and registrar officers, with the growth rate being most marked among small enrollment institutions.

TABLE II

RELATIONSHIP BETWEEN INSTITUTIONAL ENROLLMENT AND YEAR OF FIRST COMPUTER USE

PERIOD OF FIRST USE	Below 1000	1000-4999	5000-9999	10000-14999	15000-19999	20000 or Over	Total
Prior 1955	0 (0.0)	0 (0.0)	3 (1.8)	0 (0.0)	1 (2.4)	1 (2.2)	5 (0.6)
1955-60	2 (1.3)	13 (3.1)	13 (7.8)	10 (12.4)	2 (4.8)	7 (15.2)	47 (5.2)
1961-65	33 (22.0)	134 (32.3)	94 (56.3)	47 (58.0)	25 (59.5)	33 (71.7)	366 (40.6)
1966 - Present	100 (66.7)	256 (61.7)	54 (32.3)	24 (29.6)	12 (28.6)	4 (8.7)	450 (49.9)
No Reply	15 (10.0)	12 (2.9)	3 (1.8)	0 (0.0)	2 (4.8)	1 (2.2)	33 (3.7)

NOTE: Data given in parentheses are percentages. Other figures are frequencies.

TABLE III

PLANS AND CAPABILITIES OF THOSE INSTITUTIONS NOT CURRENTLY USING COMPUTERS

	IS THERE A COMPUTER ON YOUR CAMPUS	DO YOU PLAN TO USE A COMPUTER IN NEXT TWO YEARS
YES	467	409
NO	109	167

TABLE IV

INSTITUTIONAL SIZE AND USE OF MULTIPLE COMPUTERS

	Below 1000	1000-4999	5000-9999	10000-14999	15000-19999	20000 or Over	Totals
Using Two Computers	6 (1.1)	38 (6.3)	37 (20.7)	14 (17.1)	11 (26.2)	17 (37.0)	123 (8.3)
Using More Than Two	2 (.4)	21 (3.5)	16 (8.9)	8 (9.8)	8 (19.0)	11 (23.9)	66 (4.5)

NOTE: Data in parentheses indicate percentage of institutions in a given enrollment range who are using two or more than two computers.

III.

TYPES OF COMPUTERS IN USE

Having outlined some of the trends concerning what institutions are using computers, it is appropriate to ascertain what kinds of computers are being used. A specific association of computer equipment and institutions can be found in Appendix C. Only a summary of equipment usage will be presented here.

In Table V will be found a profile relating computer type and institutional enrollment. As was the case in the 1966-67 survey, IBM equipments are the prevailing ones now in use. A rank order of equipment usage by manufacturer is as follows:

Manufacturer	Number of Equipments
IBM - International Business Machine	832
HON - HoneyWell	41
UNI - Univac	32
CDC - Control Data Corporation	29
RCA - Radio Corporation of America	18
NCR - National Cash Registrar	14
BUR - Burroughs	13
GE - General Electric	6
XDS - Xerox Data Systems	6
- Others	6

TABLE V

RELATIONSHIP BETWEEN ENROLLMENT AND TYPE OF COMPUTERS IN USE

COMPUTER	Below 1000	1000 -4999	5000 -9999	10000 -14999	15000 -19999	20000 or over	Total
IBM 40			1				1
IBM 402				1			1
IBM 360		4		1			5
IBM 360-20	12	38	14	6	2	4	76
IBM 360-25	1	5	5	4	1		16
IBM 360-30	10	37	32	14	9	7	108
IBM 360-40	8	15	23	17	11	13	87
IBM 360-44	1	3	3				7
IBM 360-50	2	6	11	7	6	11	43
IBM 360-91		1			1		2
IBM 360-65	1	3	3	2	3	3	15
IBM 360-67		3		1			4
IBM 360-75	1	1	1	2	3		8
IBM 709		1	1				2
IBM 1120		1					1
IBM 1130	25	122	9	3	1	1	161
IBM 1160		1					1
IBM 1301	1						1
IBM 1800	1						1
IBM 1401	20	72	49	21	11	7	180
IBM 1410			2		3		5
IBM 1420			1				1
IBM 1440	1	1					2
IBM 1460		1		1		3	5
IBM 1620	9	53	17	4			83
IBM 1724		1					1
IBM 1800		3					3
IBM 7040		1	1		1	1	4
IBM 7044			1			1	2
IBM 7072			1				1
IBM 7074				1			1
IBM 7094	1		2		1		4
TOTAL IBM							832
UNI 1004	1	3					4
UNI 1005			1				1
UNI 1107			1				1
UNI 1108	1	1	1		1	1	5
UNI 5590						1	1
UNI 9300	2	13	2	1			18
UNI 9200 II		1					1
UNI 009400		1					1
TOTAL UNI							32
HON 200	1	5	3	2		2	13
HON 110		1					1
HONH 200		3	2	1			6
HONH 1200		1	1	1			3
HON 1200	1	5	3		1	2	12
HON 1250			2	2			4
HON 1251			1				1
HON 200120		1					1
TOTAL HON							41

COMPUTER	Below 1000	1000 -4999	5000 -9999	10000 -14999	15000 -19999	20000 or over	Total
CDC 160-A	1	1					2
CDC 3150				1			1
CDC 3200			2				2
CDC 3300		1	1	3	1	3	9
CDC 3600	1						1
CDC 6600		4	1		2	3	10
CDC 6500		1				1	2
CDC 33000					1		1
CDC 8090		1					1
TOTAL CDC							29
NCR 100	2	3	1				6
NCR CEN 100	4	2					6
NCR 200		1	1				2
TOTAL NCR							14
BURR 200		1					1
BURR 300	1	2					3
BURR 2500			2				2
BURR 3500			1				1
BURR 5500	1	4				1	6
TOTAL BURR							13
GE 225		2					2
GE 415				1		1	2
GE 635		1			1		2
TOTAL GE							6
SDS 9300				1			1
XDS 5			1				1
XDSSIGMA 5						1	1
XDSSIGMA 7		2	2				4
TOTAL XDS							7
LGP 30		1					1
DECPDPIO			1				1
INTMOD 4			1				1
REM 1107		1					1
TOTAL OTHERS							4
RCA 466		1					1
RCA 301		1					1
RCA 7035			2				2
RCA SP7035			1				1
RCA 70/46				2			2
RCA 70145				1			1
RCA SPEC 70	2	2					4
RCA 70-466					1		1
RCA 70/35		2					2
RCA 7045	1						1
RCA 70-35			1				1
RCA 70-45G			1				1
TOTAL RCA							18

NOTE SOME COMPUTER MANUFACTURER NAMES AND MODEL NUMBERS MAY BE INACCURATE. THE DATA WERE EXTRACTED "AS IS" FROM QUESTIONNAIRES.

Apparent from the data of Table V is the emergence of newer computer equipments. For example, the types most frequently cited in the 1966-67 survey included IBM systems 1620 and 1401. In that survey, the pending installation of IBM systems 360 was mentioned. That many institutions have acquired some model IBM 360 can readily be seen from the data of Table V. Popular models include the IBM 360/20, IBM 360/30 IBM 360/40, and IBM 360/50. Another computer enjoying increased use is the IBM 1130; and as might be expected, the popularity of this model is to be found primarily among the smaller enrollment institutions (5000 or less).

Concerning the types of input/output devices in use, some conception may be gained from the data of Table VI. For this table, each institution was asked whether or not a given input/output device was available on their campus and then whether or not they were using the specified device. The standard input/output modes of punch card, magnetic tape, and printer are cited most frequently. However, there are many institutions now making use of remote terminals, with either print or visual output. There appear to be opportunities for increased use of terminals as we note the presence of more terminals on campuses than are reported in use by admissions and registrar officers. Optical scanning devices also appear to be coming into increased use in admissions and registrar activities as more of these are reported than terminal input/output.

TABLE VI

INPUT OUTPUT DEVICES IN USE

	COMPUTER I	
	AVAILABLE BUT NOT USED	AVAILABLE AND USED
PUNCHED CARD	39	787
PAPER TAPE	63	28
MAGNETIC TAPE	40	399
HIGH SPEED PRINT	31	661
REMOTE TERMINAL (PRINT)	84	49
REMOTE TERMINAL (VIDEO)	50	27
OPTICAL SCANNER	48	70
OPTICAL READ	27	20

	COMPUTER II	
	AVAILABLE BUT NOT USED	AVAILABLE AND USED
PUNCHED CARD	13	168
PAPER TAPE	20	3
MAGNETIC TAPE	10	110
HIGH SPEED PRINT	10	134
REMOTE TERMINAL (PRINT)	23	21
REMOTE TERMINAL (VIDEO)	10	8
OPTICAL SCANNER	12	14
OPTICAL READ	3	3

A portion of the survey design called for an exploration of core storage and auxiliary storage capacities. However, the design of the questions and the variety of responses was such that no meaningful interpretation could emerge. Discussion of this problem can be found in Appendix A.

IV.

ANALYSIS OF COMPUTER APPLICATIONS

Trends in the extent and kinds of computers in use have been identified in the two previous sections. For this portion of the discussion, the concern is with "how" these computers are being utilized in admissions, records, and registrar activities. Table VII presents data on the relationship between application and institutional enrollment. The data of this table are frequency data. For the reader interested in the specific applications associated with individual institutions, a listing of these can be found in Appendix C.

A quick review of Table VII reveals that a number of applications are in majority use among all sizes of institutions. Among these are those of:

(1) Collecting and organizing admissions data.

(2) Preparing class rolls, locator cards, and other registration documents.

(3) Preparing student academic record cards.

(4) Notifying the student of his academic performance via grade reports.

(5) Analyzing grading practices.

TABLE VII

RELATIONSHIP BETWEEN

INSTITUTIONAL ENROLLMENT

AND COMPUTER APPLICATIONS

		ADMISSIONS							REGISTRATION							RECORDS							MANAGEMENT ANALYSIS					
		1 Collecting and organizing admissions data	2 Executing admissions decisions on the basis of programmed criteria (admit, reject, refer etc)	3 Notifying prospective students of admissions status.	4 Assisting in student recruiting by mailing prospective students infor. on your school.	5 Making housing assignments.	6 Performing financial needs analysis for award of loans and scholarships.	7 Analyzing transfer work from other instit.	8 Sectioning students by transferring student course requests into class space reservations.	9 Assessing registration fees.	10 Scheduling registration appointment times.	11 Preparing class schedule publications.	12 Preparing class rolls, locator cards, and/or other registration documents.	13 Processing change of course (add/drop) via terminal.	14 Notifying local selective service boards of student enrollment status.	15 Setting up student academic records card by printing basic student information by computer.	16 Maintaining entire student record in computer storage (includes pers. & acad. course data).	17 Processing changes to computer record by means of remote terminal input.	18 Making inquiry to computer record by means of remote terminal.	19 Executing decisions on academic status (i.e. probation, suspension) on the basis of estab. acad. policy.	20 Notifying student of academic performance by preparation of grade reports, etc.	21 Assisting in analysis of student record for purposes of determining graduation eligibility.	22 Analyzing results of admissions decisions (i.e. no. accepted, no. rejected, reasons rejected, etc.).	23 Anal. enrollment trends (i.e. no. of full-time part-time students, no. from part. states, etc.).	24 Analyzing utilization of space.	25 Analyzing grading practices (i.e. no. of A's awarded by dept. and course, etc.).	26 Analyzing academic abilities and relative performance of students (i.e. relating test data & GPA).	27 Performing simulation analysis to assess the interaction effect of various instit. variables.
Below 1000 N=150	O	40	5	4	18	4	5	2	22	26	9	43	123	47	13	64	51	5	5	57	128	51	17	58	14	78	33	5
	P	29	10	19	20	7	23	10	16	13	10	15	6	8	18	26	28	15	14	15	8	20	23	27	20	23	36	13
	N	81	135	127	112	139	122	138	112	111	131	92	21	95	119	60	71	130	131	78	14	79	110	65	116	49	81	132
1000-4999 N=415	O	236	24	42	117	34	33	14	86	170	56	186	381	91	92	214	134	14	5	181	376	93	113	270	112	284	117	25
	P	91	51	67	59	46	77	25	80	56	50	69	13	54	65	80	139	77	76	70	16	139	92	66	106	68	108	78
	N	88	340	306	239	335	305	376	249	189	309	160	21	270	258	121	142	324	334	164	23	183	210	79	197	63	190	312
5000-9999 N=167	O	114	14	32	45	19	11	6	48	73	38	80	160	23	82	85	57	4	4	94	160	29	59	126	53	122	61	10
	P	30	40	44	19	28	46	20	56	40	20	31	2	47	20	32	59	56	60	27	4	63	39	21	71	20	40	37
	N	23	113	91	103	120	110	141	63	54	109	56	5	97	65	50	51	107	103	46	3	75	69	20	43	25	66	120
10000-14999 N= 81	O	61	8	17	22	9	10	0	28	41	17	50	79	17	37	47	33	1	5	46	80	25	35	66	33	62	33	5
	P	15	19	22	12	14	17	10	22	15	10	16	0	26	9	23	31	39	35	7	1	18	19	8	27	7	15	11
	N	5	54	42	47	58	54	71	31	25	54	15	2	38	35	11	17	41	41	28	0	38	27	7	21	12	33	65
15000-19999 N= 42	O	34	8	17	13	6	8	3	11	23	14	25	41	3	25	29	15	2	2	25	41	8	25	37	27	34	19	3
	P	6	9	10	7	8	9	7	18	9	7	10	0	25	3	7	18	28	29	7	0	18	5	2	10	4	9	8
	N	2	25	15	22	28	25	32	13	10	21	7	1	14	14	6	9	12	11	10	1	16	12	3	5	4	14	31
20000 or over N= 46	O	39	14	26	17	12	7	3	17	27	12	28	43	3	27	28	18	4	8	26	45	15	26	40	29	37	23	6
	P	5	8	4	2	3	10	8	13	12	4	13	1	25	2	12	23	28	28	7	1	18	9	5	10	2	10	10
	N	2	24	16	27	31	29	35	16	7	30	5	2	18	17	6	5	14	10	13	0	13	11	1	7	7	13	30

O - Operation
P - Planned but not in operation
N - Not in operation

The array of applications increases as enrollment increases. For example, the majority (over half report use) of the largest institutions (20,000 enrollment or over) are now making use of 14 of the 27 applications listed as compared to 3 of 27 for the smallest enrollment institutions (less than 1,000). Those applications which are infrequently cited among all sizes of institutions would include the following:

(1) Analyzing transfer work from other institutions.

(2) Processing changes to records via terminal input/output.

(3) Conducting simulation studies.

Concerning those applications which are in the planning stages, there is a definite trend toward the use of computers for more analytical activities, as distinguished from mechanical and maintenance activities, and toward the use of "real time" arrangements such as terminals for the maintenance of student records. Such applications may include file update procedures, such as course changes, and the production of output data such as transcripts.

Future surveys should probably review the preciseness of description in some of the activities of Table VII. For example, a large number of institutions in all enrollment ranges report the maintenance of the entire student record in computer storage (application 16), where it would seem that this rather complex operation would not be nearly sc prevalent.

V.

REVIEW OF MANAGEMENT PATTERNS AND PROBLEMS

A factual review of types of computers and their application does not really capture the organizational strains produced by the planning, implementation, and continuing revision of computer based systems in admissions and registrar offices. Any admissions officer or registrar who has gone through the stress of moving even parts of his operation to a computer can witness to the problems attached thereto. The purpose of this part of the survey was to touch briefly on management oriented problems associated with the use of computers.

One of the questions most frequently posed in the installation and operation of a computer system concerns the organizational locale of the computer. The data of Table VIII provide a descriptive profile of current practices among the institutions participating in the study. The prevailing administrative arrangement appears to be that of a combined academic/administrative center under a single director. This particular arrangement would appear to be the most frequent used among the middle range of institutional enrollments. For the extremely large institutions, there is a shift toward the separate administration of the computer dedicated to administrative and management functions. It is important to emphasize that these data are descriptive and not normative. Individual institutions must continue to weigh important local variables - - kinds and extent of applications, personalities of computer personnel, physical facilities, etc. - - to design those administrative arrangements which best facilitate use of computers on their own campuses.

With regard to administrative arrangements, it is important to note the sizeable number of institutions making use of some time sharing or external arrangement for computer services. This practice is especially prevalent among the smaller enrollment institutions. For example, we can note from Table VIII that over half of those institutions having enrollments less than 1000 and using computers have an external arrangement for these services.

Another question frequently posed by those using computers concerns the method whereby operational needs for computer services are committed to a systems design and hence to particular programs for integration into an operational service. The data of Table IX permit us to obtain some idea of current practice on this question. For most institutions, it would appear that assistance in the development of new computer services and the analysis related thereto comes from personnel attached to the computer center. However, for the larger enrollment institutions there is a slightly discernible trend toward the use of a systems analyst attached to the staff of the admissions and/or registrar office. Again, these profiles are descriptive. They do not provide answers to practice at the local level, where systems work must fit the peculiar combination of personnel resources associated with each institution.

Since the advent of computer based systems in colleges and universities, there has been a continuing concern with the problem of decision-making power within the institution. A focus on this problem as it affects admissions and registrar activities is found in Table X. The necessity for more formalized approaches to decision making as size of institution grows can be noted from the data of this table. Although the most frequent practice seems to favor the computer center manager making decisions of priority, there is more frequent use of a committee approach as the size of the institution increases. This trend probably reflects the increased complexity of institutional priorities and associated decisions as the size of an institution increases.

Two questions in the survey explored the size of computer staff and their work arrangements. Table XI reveals the expected association between size of institution and number of staff members. Although the mean number of personnel for each category is interesting, of more interest is the diversity of staff size as reflected in the maximum number of such personnel reported. For example, the average number of "senior programmers" for institutions in the 20,000 enrollment range is 7.4; but at least one institution in this range reported as many as 30 senior programmers. These personnel profiles are for all employees of computer center and not just for those associated with admissions and registrar activities. The work profile arrangements for computer personnel as a function of institutional size can be found in Table XII. Here we can find the expected move to "around the clock" operation as the size of institution increases. The large percentage of "unknown" and "not applicable" responses for smaller institutions reflects their use of external service sources.

What registrars and admissions officers consider to be the most pressing problem associated with the use of computers is revealed in the data of Table XIII. It is interesting to note the shift in problem focus as size of institution increases. For the smaller institution, the pressing problem is understanding computers. Data of an earlier Table (Table II) show that over 60% of the small institutions moved to computers within the last four year period. For most of the smaller institutions, the more immediate problems center around getting computer based systems into operation and resolving the many problems associated with getting an application in workable shape.

However, AACRAO members in the larger institutions report a focus on other kinds of problems, including competing priorities for computer services and establishing appropriate communication and decision making patterns. These are probably those institutions who have the basic applications in workable order but who now face the challenge of building interfaces among the various data systems of their institutions. Those who have faced the complexities of interrelationships among student data systems, fiscal data systems, personnel data systems, and physical facility data systems can well appreciate the problems found there.

Finally, inquiry was made concerning the ways in which AACRAO members had acquired their knowledge of computers. Data of Table XIII reveal the response distribution by size of institution. That "on-the-job" experience is the most frequent teacher is an inference well supported by this table. Other modes of gaining experience include professional meetings such as the annual meeting of AACRAO. A sizeable percentage can also be found in the "other" category, which means that many respondents checked more than one response. These data, of course, only reflect "what is." Although more formal programs, such as the MODS seminars, do not show up very strong, this can be attributed to the smaller number of AACRAO members who have been able to attend these seminars.

Future training experiences sponsored by AACRAO can take a cue from these and other data. For the small college admissions officer and registrar, including many just acquiring computers, perhaps the focus should be on computer concepts and other fundamentals of building basic systems. For professionals in larger institutions, where computers have been in use for a while and basic systems are in operation, perhaps the focus should be on the problems of systems integration and decision making structures.

TABLE VIII

RELATIONSHIP OF INSTITUTIONAL ENROLLMENT TO ADMINISTRATION OF COMPUTER FACILITIES

ADMINISTRATION	Below 1000	1000-4999	5000-9999	10000-14999	15000-19999	20000 or Over	Total
Administrative/ Registrar Office	13 (8.7)	20 (4.8)	8 (4.8)	1 (1.2)	0 (0.0)	2 (4.4)	44 (4.9)
Business/Finance Office	6 (4.0)	48 (11.6)	24 (14.4)	12 (14.8)	5 (11.9)	7 (15.2)	102 (11.2)
Combined Research/Academic	34 (22.7)	195 (47.0)	97 (58.1)	48 (59.3)	23 (54.8)	14 (30.4)	411 (45.6)
Administrative Computer Center	4 (2.7)	38 (9.2)	26 (15.6)	19 (23.5)	11 (26.2)	20 (43.5)	118 (13.1)
Academic Department	13 (8.7)	33 (8.0)	3 (1.8)	0 (0.0)	0 (0.0)	1 (2.2)	50 (5.6)
Outside Institution	83 (55.3)	76 (18.3)	7 (4.2)	1 (1.2)	2 (4.8)	1 (2.2)	170 (18.9)
Options Inapplicable	0 (0.0)	5 (1.2)	2 (1.2)	0 (0.0)	1 (2.4)	1 (2.2)	9 (1.0)

NOTE: Data given in parentheses are percentages. Other figures are frequencies.

TABLE IX

RELATIONSHIP BETWEEN INSTITUTIONAL ENROLLMENT AND METHOD OF SYSTEMS ANALYSIS

	Below 1000	1000-4999	5000-9999	10000-14999	15000-19999	20000 or Over	Total
Staff Member Analyst	11 (7.3)	37 (8.9)	21 (12.6)	6 (7.4)	6 (14.3)	10 (21.7)	91 (10.1)
Administrative Officers Analyst	21 (14.0)	44 (10.6)	16 (9.6)	7 (8.6)	4 (9.5)	2 (4.4)	94 (10.4)
Computer Center Personnel Analyst	87 (58.0)	298 (71.8)	119 (71.3)	60 (74.1)	26 (61.9)	30 (65.2)	620 (68.8)
External Personnel Analyst	12 (8.0)	16 (3.9)	3 (1.8)	4 (4.9)	2 (4.8)	4 (8.7)	41 (4.6)
Options Inapplicable or Multiple Options	19 (12.7)	20 (4.8)	8 (4.8)	4 (5.9)	4 (9.5)	0 (0.0)	55 (6.1)

NOTE: Data given in parentheses are percentages. Other figures are frequencies.

TABLE X

RELATIONSHIP BETWEEN INSTITUTIONAL SIZE AND DECISION MAKING PROCEDURES

	Below 1000	1000-4999	5000-9999	10000-14999	15000-19999	20000 or Over	Total
Computer Center Manager	34 (22.7)	175 (42.2)	77 (46.1)	28 (34.6)	13 (31.0)	19 (41.3)	346 (38.4)
Computer Center Manager and Supervisor	12 (8.0)	79 (19.0)	32 (19.2)	17 (21.0)	8 (19.0)	8 (17.4)	156 (17.3)
Formal Institution Committee	19 (12.7)	57 (13.7)	29 (17.4)	16 (19.8)	9 (21.4)	13 (28.3)	143 (15.9)
Informal Institution Committee	35 (23.3)	61 (14.7)	19 (11.4)	11 (13.4)	7 (16.7)	6 (13.0)	139 (15.4)
Options Not Applicable	50 (33.3)	43 (10.4)	10 (6.0)	9 (11.1)	5 (11.9)	0 (0.0)	117 (13.0)

NOTE: Data given in parentheses are percentages. Other figures are frequencies.

TABLE XI

RELATIONSHIP BETWEEN INSTITUTIONAL ENROLLMENT AND SIZE OF COMPUTER CENTER STAFF

	Below 1000	1000-4999	5000-9999	10000-14999	15000-19999	20000 or Over
Senior Programmer	2.2 (14)	1.8 (17)	2.9 (15)	4.0 (14)	5.3 (15)	7.4 (30)
Junior Programmer	1.6 (18)	1.1 (10)	2.3 (20)	2.8 (14)	5.4 (17)	6.0 (20)
Operators	2.0 (20)	1.6 (16)	2.6 (12)	3.3 (20)	5.1 (22)	6.4 (17)
Key Punchers	2.9 (28)	2.4 (25)	4.0 (18)	5.7 (21)	8.0 (25)	10.9 (45)
Supporting	1.5 (30)	1.0 (20)	2.2 (14)	4.1 (40)	6.6 (50)	9.2 (61)
Unknown	70	78	14	3	5	3

NOTE: Figures outside parentheses are means. Data within parentheses are highest number reported.

TABLE XII

RELATIONSHIP BETWEEN INSTITUTIONAL SIZE AND COMPUTER PERSONNEL WORK ARRANGEMENTS

	Below 1000	1000-4999	5000-9999	10000-14999	15000-19999	20000 or Over	Total
Day Shift	27 (18.0)	134 (32.3)	27 (16.2)	2 (2.5)	1 (2.4)	1 (2.2)	192 (21.3)
Day Shift and Night Emergency	25 (16.7)	137 (33.0)	51 (30.5)	13 (16.0)	6 (14.3)	5 (10.9)	237 (26.3)
Two Shift Operation	12 (8.0)	58 (14.0)	62 (37.1)	44 (54.3)	20 (47.6)	15 (32.6)	211 (23.4)
Three Shift Operation	13 (8.7)	21 (5.1)	23 (13.8)	21 (25.9)	14 (33.3)	25 (54.4)	117 (13.0)
Unknown or Not Applicable	73 (48.7)	65 (15.7)	4 (2.4)	1 (1.2)	1 (2.4)	0 (0.0)	144 (16.0)

NOTE: Data given in parentheses are percentages. Other figures are frequencies.

TABLE XIII

RELATIONSHIP BETWEEN INSTITUTIONAL SIZE, PROFESSIONAL ROLE, AND PROBLEMS IN COMPUTER OPERATION

	ADMISSIONS OFFICER							RECORDS-REGISTRATION OFFICER						
	Below 1000	1000 -4999	5000 -9999	10000 -14999	15000 -19999	20000 or over	Total	Below 1000	1000 -4999	5000 -9999	10000 -14999	15000 -19999	20000 or over	Total
1. Computer Center personnel do not understand and/or appreciate problems of admissions-registrar office.	1.5	7.4	12.8	13.4	20.0	10.5	9.5	9.0	11.4	13.4	9.1	12.5	11.4	11.3
2. Admissions and registrar personnel do not understand enough about computers.	41.2	26.1	11.2	10.5	2.9	18.4	21.0	[illegible]	14.7	7.8	5.2	12.5	4.6	13.9
3. Computer equipment currently available is not sufficient to do the kinds of things we want to do.	5.9	16.3	18.4	19.4	14.3	2.6	14.9	13.5	20.5	25.4	24.7	15.0	13.6	20.1
4. Computer Center is not staffed with sufficient personnel.	20.6	21.4	20.0	20.9	25.7	15.8	20.9	12.6	19.1	19.7	20.8	22.5	20.5	18.7
5. There is difficulty in obtaining computer services because of other pressing institutional needs for the computer.	10.3	11.3	17.6	19.4	17.1	26.3	14.8	7.2	12.6	13.4	16.9	20.0	20.5	13.3
6. Lines of communication are too rigid and structured. Communication has to go through channels. There is little or no direct access to computer center persnl.	0.0	0.0	1.6	1.5	2.9	2.6	0.9	0.0	0.6	0.7	2.6	2.5	0.0	0.8
7. Lines of communication are too formal. Absence of clear definition and documentation of procedures and services.	2.9	1.2	1.6	1.5	0.0	7.9	1.9	4.5	2.4	2.1	6.5	2.5	6.8	3.3
8. Other or multiple responses.	17.7	16.3	16.8	13.4	17.1	15.8	16.3	23.4	18.8	17.6	14.3	12.5	22.7	18.7

NOTE: Data of this table are in percentages

TABLE XIV

RELATIONSHIP BETWEEN INSTITUTIONAL SIZE, PROFESSIONAL ROLE AND MEANS OF ACQUIRING COMPUTER COMPETENCE

	ADMISSIONS OFFICER							RECORDS-REGISTRATION OFFICER						
	Below 1000	1000 -4999	5000 -9999	10000 -14999	15000 -19999	20000 or over	Total	Below 1000	1000 -4999	5000 -9999	10000 -14999	15000 -19999	20000 or over	Total
1. Attended special non-credit program for computer users which focused on basic concepts (i.e., IBM customer executive school, etc.).	8.6	5.5	13.2	10.6	7.9	5.6	8.2	6.8	10.6	15.3	10.7	14.6	9.3	11.1
2 Attended professional meetings at AACRAO where computer concepts and applications were discussed.	12.1	11.0	9.9	4.6	2.6	16.7	10.0	8.5	8.7	4.0	8.0	0.0	4.7	[illegible].0
3. Attended seminar on Management of Data for Students (MODS).	0.0	2.8	1.7	4.6	0.0	0.0	2.1	1.7	1.9	2.0	2.7	0.0	4.7	2.0
4. Attended Machine Records Conference.	1.7	1.6	0.8	1.5	2.6	2.8	1.6	2.5	1.9	1.3	2.7	7.3	4.7	2.4
5. Undertook personal reading and study.	10.3	9.8	6.6	6.1	10.5	2.8	8.4	9.3	7.6	4.7	8.0	4.9	4.7	7.0
6. Developed understanding from on-the-job-experience.	36.2	43.7	43.0	48.5	47.4	44.4	43.6	42.4	40.7	44.7	44.0	41.5	44.2	42.2
7. Developed understanding from prior experience with unit record equipment.	6.9	7.1	6.6	10.6	7.9	5.6	7.3	6.8	7.1	14.0	10.7	14.6	9.3	9.2
8. Completed a course in computer programming for either credit or non-credit.	6.9	5.5	4.1	4.6	7.9	0.0	5.1	10.2	6.2	7.3	6.7	7.3	0.0	6.8
9. Other or multiple responses.	17.2	13.0	14.1	9.1	13.2	22.2	13.8	11.9	15.5	6.7	6.7	9.8	18.6	12.3

NOTE: Data of this table are in percentages.

VI.

SUMMARY

Previous sections of the survey report have presented an array of tabular data and associated comments. An appropriate function now to be performed is to extract from these comments and data the more significant findings and to present these in a form both concise and clear. Though there were many points of interest to be found in the data, the following are deemed most important:

(1) The move to computer utilization in admissions, records, and registration activities continues at a strong pace. This year 61% (901 institutions) reported the use of computers, as compared with approximately 41% (585 institutions) in the last survey of 1966-67.

(2) Smaller enrollment institutions show the strongest percentage gains in computer use of the last survey of 1966-67. Over 60% of the institutions in the two smallest enrollment categories (0-5000 students) indicate movement to computers within the last four year period.

(3) A prominent computer arrangement among the smaller institutions includes time sharing arrangements with other institutions external to the college and/or service bureau arrangements. Over 50% of those institutions with enrollments less than 1,000 report the use of such external arrangements.

(4) Concerning the types of computers in use, IBM continues to dominate the field. IBM system 360's appear to be the most frequently reported systems, especially among the larger institutions. For the smaller institutions, the IBM 1130 appears to be a popular hardware. Many institutions now report the use of newer input/output devices such as terminals and optical scanners.

(5) With regard to the ways in which computers are being used, those activities common to all institutions include the mechanical aspects of records and registration such as the production of enrollment documents and grade reports.

(6) There is a discernible trend toward the more analytical uses of computers such as analyzing admissions data and decisions, enrollment trends, etc. Also frequently mentioned are those applications in which the computer executes clearly defined and routine decision making activities associated with admissions and academic status. Other applications now in less frequent use but on the planning horizon for more institutions include the use of terminals for "real time" operations related to registration and records.

(7) In the domain of management patterns and problems, an expected diversity was to be found in the areas of computer administration, decision making, and systems design work.

  (a) Among the modes of computer center administration, the most common one for all sizes of institutions appears to be that of a combined academic/administrative computer center.

  (b) Systems analysis and design work is apparently done most often by personnel attached to a computer center, though larger institutions will frequently have a "systems analyst" attached to the staff of the admissions and/or registrar office.

  (c) Apparently decisions of priority concerning computer applications are made by the computer center director; in larger institutions there is also frequent use of formal committees for such decisions.

(d) Problems considered important by admissions and registrar personnel vary with institutional size. The smaller institutions report problems primarily associated with gaining a more thorough understanding of computer power and limitations in implementing basic computer applications. The larger institutions report problems associated with competing demands for computer time and problems associated with systems integration and decision making.

(8) On-the-job experience is reported as the primary source of computer and systems understanding by the greater majority of survey respondents.

As a descriptive study, this 1969-70 survey of "Management and Utilization of Electronics Data Processing Systems in Admissions, Records, and Registration" suffers from the usual constraints associated with descriptive efforts; the passing of time quickly erases the validity of findings. However, the navigator frequently needs to plot current position so that he may with more confidence appraise progress toward his destination. And so perhaps this survey will be of value to members of our profession by defining current practice, by indicating probable future trends, and by identifying sources of information as we engage in the common venture of rendering a more professional service to our institutions.

APPENDIX A

CRITIQUE OF SURVEY PROCEDURES AND QUESTIONNAIRE

CRITIQUE OF SURVEY INSTRUMENT AND METHODOLOGY

The purpose of these comments is to present a brief critical review of the survey instrument and methodology in hopes that an exposition of problems encountered in the execution of the survey might be helpful in future efforts. Structure of the critique is in two parts: Survey Procedures and Survey Questionnaire.

Survey Procedures

Many of the problems encountered in prosecuting the survey may be expected in the conduct of any large scale descriptive effort involving a questionnaire. Among the problems found in mailing and receiving the questionnaire were the following:

(1) Mailing labels for institutions were furnished by the AACRAO Office in Washington. In some cases, the names of institutions or contact persons had changed so that they did not correspond with the address placed on the questionnaire. However, the maintenance of an up-to-date mailing file is a never-ending task and it is probable that this will be a minor problem with any future survey.

(2) Apparently some questionnaires were lost in the mailing process as some institutions reported the receipt and completion of more than one instrument. We were rather insistent in our follow-up and can only apologize to those institutions for which mailing problems caused us to send more than one questionnaire.

(3) Some institutions elected not to participate even after a third follow-up and some returned questionnaires as late as one month after the third follow-up date. Approximately three weeks were allowed between initial mailing and due date for the questionnaire to be returned. Future surveys might extend this time period to allow five or six weeks for initial response before follow-up.

(4) Apparently the instructions were not clear to some institutions, who indicated that they were not using computers and that the questionnaire did not apply to them. Where possible, this was noted and a questionnaire completed for these institutions.

(5) Another area which caused some confusion and which should be given more thorough consideration in future surveys is that of multiple campuses. If the AACRAO directory listed the campus separately, a questionnaire was sent. In many cases, however, these multiple campuses used the computer facilities of the main campus.

(5) Finally, there was the expected but troublesome problem of incomplete responses. In some cases, these were caused by a failure to design the question properly, of which more will be said later. However, there were some instances of respondents reporting that they were using a computer and then leaving the rest of the questionnaire blank.

In summary, our assessment is that most of the problems encountered in getting the instrument out and back were of a minor character. Many of them can be minimized in the future by (a) allowing more time for initial completion and return of the questionnaire before beginning followup action and (b) designing questions more completely so that a response alternative is provided for every institution.

Questionnaire Design

The general format and design of the questionnaire seemed to have been conducive to response. An initial differentiation of responses in the opening section to allow short response for those institutions not using computers was, for the most part, very successful. Grouping of questions to probe different areas of interest apparently was also effective, as was the system employed for the return of the instrument (staple and put in mail - - postage already affixed). In the analysis of the data, the prior design of punch card formats facilitated the preparation and analysis of data. Some temporary difficulty was created by the misprinting of some card field numbers on pages 5 and 6 of the questionnaire. However, this was corrected before the questionnaires went to key punch.

Some preliminary inquiry was made with Optical Scanning Corporation concerning the use of an optical scanning form in the study. Although they were interested in probing this mode of response and also interested in the possibility of providing some support in forms design and supply, the timetable did not permit adequate time to pursue development. Future surveys might give more consideration to the use of optical scanning forms.

Among the problems encountered in instrument design and content were the following:

(1) More thorough consideration should have been given to those institutions using external computer services such as time sharing and service bureaus. Some questions did not provide sufficient alternatives for these colleges to respond.

(2) Questions 5, 6, and 7 in Section III - Computer Description Data, were inadequate to handle the response data of some of the larger institutions. Some respondents apparently had other difficulties with these questions as they were partially completed. More thorough design is needed in this area to render analysis more meaningful.

(3) Questions 1, 2, and 4 of Section IV - Computer Administration should have had a "catch all" alternative for those institutions where a multiple response or "not applicable" response was appropriate. In some cases this "catch"all response was added after receipt of the instrument.

(4) A more precise definition or description of the applications found in questions 1 through 27 in Section V - Computer Applications is needed. For example, a large number of institutions, including many smaller enrollment institutions, reported the operational use of application 16, "Maintaining entire student record in computer storage." While this large number is possible, it did not seem that these data realistically reflect the number of institutions who had computer access to the student's complete academic record.

(5) The questions in Section VI - Problems in Computer use and Section VII - Method of Acquiring Computer Competence probably should have allowed a rank order response mode. These questions were originally set up in a rank order mode, but this was changed to the "Check Only One" mode when it was realized that some AACRAO members would not be familiar with all response alternatives, thus making a complete rank order impossible. However, respondents could have been asked to give partial rank order (i.e. rank top three or four) which perhaps would have provided more meaningful data on these two questions.

AMERICAN ASSOCIATION OF COLLEGIATE REGISTRARS AND ADMISSIONS OFFICERS

SURVEY OF THE MANAGEMENT AND UTILIZATION OF ELECTRONICS DATA PROCESSING SYSTEMS IN ADMISSIONS, RECORDS AND REGISTRATION

1969-70

SPONSORED BY THE ELECTRONIC COMPUTER COMMITTEE
OF THE DATA MANAGEMENT AND RESEARCH GROUP

American Association of Collegiate Registrars and Admissions Officers
FIFTY-SIXTH ANNUAL MEETING, APRIL 20 - 24, 1970, NEW ORLEANS, LOUISIANA

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TO: Members of AACRAO

FROM: Electronics Computer Committee of Group IV

SUBJECT: Seventh Survey of the Management and Utilization of Electronics Data Processing Systems in Admissions, Records and Registration

DATE: October 1, 1969

With encouragement from both members of AACRAO and other professional educators in higher education, the Electronics Computer Committee of Group IV has accepted with pleasure the responsibility for again conducting this survey of computer use in admissions, records, and registration.

The survey instrument has been designed with particular care to insure accuracy and ease of response. Though the instrument may at first appear to be rather long, you will find that the responses require only a check or quick numerical entry, with the exception of the last page which has provisions for three open-ended questions. The increased length of the instrument derives from more extensive goals established for this year's survey.

Only one copy of the instrument has been mailed to each institution; but where it was appropriate and desirable to do so, provision has been made for separate responses by the chief admissions officer and the chief records-registration officer. For one or two questions, you may want to consult your computer center director or manager.

After you have completed the instrument, staple it together in the three places designated and place it in the mail immediately. You will note that return postage has already been provided. Return the instrument no later than November 21, 1969.

Finally, may we ask your assistance on one other matter. Our committee is developing a program for next year's meeting on the topic of "Exemplary Forms." Would you review your use of office forms and send any you consider innovative or exemplary to Mr. Edwin Walker, Coordinator of Admissions and Records, Northern Virginia Community College, 8333 Little River Turnpike, Annandale, Virginia. Ed needs six copies of any forms which you may send. Please send these by November 21, 1969.

Your assistance in this survey is appreciated, and you will be furnished a report of the study prior to our meeting in New Orleans, next year.

E. G. Bogue
FOR THE COMMITTEE

Annual Meetings: 1971 St. Louis - 1972 Cleveland - 1973 Los Angeles

Card 1

SECTION I - INSTITUTIONAL CLASSIFICATION DATA

1. Name and address of Institution

2-6

7-30

31

2. Enrollment for 1969 fall term to nearest thousand (headcount).

1 ☐ Below 1,000

2 ☐ 1,000 - 4,999

3 ☐ 5,000 - 9,999

4 ☐ 10,000 - 14,999

5 ☐ 15,000 - 19,999

6 ☐ 20,000 or over

SECTION II - COMPUTER USE DATA

1. Do you currently utilize the services of a computer in any of your admissions or registrar functions?

1 ☐ No Complete remaining questions in this section and then follow the instructions on inside back cover.

32

2 ☐ Yes Omit remaining questions in this section and go to Section III, Page 2.

2. You have indicated that you currently do not use a computer in the servicing of admissions and registrar functions at your institution. Is there a computer of any type on your campus at present?

1 ☐ No

33 2 ☐ Yes

3. Do you plan to begin use of a computer in any of your admissions, records, or registrar activities within the next two years?

1 ☐ No

34 2 ☐ Yes Please check manufacturer's name and give the model number of the computer you plan to use.

35-37 Name ☐IBM ☐BUR ☐CDC ☐HON ☐REM ☐SDS ☐UNI ☐NCR ☐GE ☐BEN ☐RCA ☐☐☐ (other)

38-43 Model: ☐☐☐☐☐☐ (If IBM system 360, be sure to give model number such as 360-30, 360-40, etc.)

4. Do you currently make use of any unit record equipment such as a sorter, printer?

1 ☐ No

44 2 ☐ Yes Check any and all equipments you currently use.

☐Key Punch ☐Collator ☐Sorter ☐Interpreter

45-50 ☐Reproducer ☐Printer (IBM 402, 407, or similar)

SECTION III - COMPUTER DESCRIPTION DATA

1. In Section II, you have indicated the use of a computer in admissions and registrar activities. Please give the manufacturer's name (use the 3-letter abbreviations found in question three of Section II on previous page) and model number in the spaces provided (if an IBM System 360, be sure to give system number such as 360-30, 360-40, etc.). If you have *access* to and currently *utilize* more than one computer, give also the manufacturer's name and model number of this second computer.

51-59 Computer One - Manufacturer Name ☐☐☐ (3-letter abbrev.) Model No. ☐☐☐☐☐☐
60-68 Computer Two - Manufacturer Name ☐☐☐ Model No. ☐☐☐☐☐☐

2. Do you currently utilize more than two computers?

69 1 ☐ No 2 ☐ Yes

Note: In the remaining questions of this section you may omit responses to "Computer Two" alternatives if you have indicated use of only one computer above.

3. Indicate the year in which you first began using computer services. DO NOT INCLUDE UNIT RECORD INSTALLATIONS.

70 1 ☐ Prior to 1955 2 ☐ 1955-1960 3 ☐ 1961-1965 4 ☐ 1966 to present

4. Check the financial arrangement which your institution has for the computer(s) which you use.

71
72

Computer One	Computer Two	
1 ☐	☐	Leased from manufacturer
2 ☐	☐	Purchased from manufacturer or other source
3 ☐	☐	Received as gift from individual or company
4 ☐	☐	Time purchased or leased on computer outside institution
5 ☐	☐	Time purchased on time sharing basis with other colleges or universities

5. Indicate *core* storage capacity in thousands of characters.

73-75
76-78

Computer One	Computer Two	
☐	☐	Thousands of characters

Card 2 (Dup. 2-6)

6. Give the following information on auxiliary storage devices available.

	Computer One	Computer Two	
7, 11	☐	☐	Number of magnetic tape *drives*
8, 12	☐	☐	Number of disk *drives*
9, 13	☐	☐	Number of data cell *drives*
10, 14	☐	☐	Number of drum storage *drives*

7. Give the following information on storage capacity of *auxiliary* storage devices listed in previous question.

	Computer One	Computer Two	
15-17, 24-26	☐ M	☐ M	Storage capacity of disk units in millions of characters
18-29, 27-29	☐ M	☐ M	Storage capacity of data cell units in millions of characters
21-23, 30-32	☐ M	☐ M	Storage capacity of drum storage units in millions of characters

8. Check whether any program packages (software) which are now, or have been, used in *admissions and registrar* services were obtained from sources *outside* your institution.

33 1 ☐ All the program packages which we use were furnished as software by the computer manufacturer or written by personnel within our institution.

2 ☐ We have used some program packages obtained from:

34
- 1 ☐ Service bureau companies outside our institution
- 2 ☐ Consultant companies or firms outside our institution
- 3 ☐ Individual consultants outside our institution
- 4 ☐ Libraries at other colleges or universities

9. Check any and all input/output devices available AND WHETHER THESE DEVICES ARE CURRENTLY *USED* IN ANY ADMISSIONS AND REGISTRAR SERVICES.

		Computer One		Computer Two		
		Avail. but not used	Avail. and used	Avail. but not used	Avail. and used	
35	43	1 ☐	2 ☐	1 ☐	2 ☐	Card Reader and Punch
36	44	☐	☐	☐	☐	Paper Tape
37	45	☐	☐	☐	☐	Magnetic Tape
38	46	☐	☐	☐	☐	High Speed Printer
39	47	☐	☐	☐	☐	Remote Terminal (print and input)
40	48	☐	☐	☐	☐	Remote Terminal (visual display & input)
41	49	☐	☐	☐	☐	Optical Scan
42	50	☐	☐	☐	☐	Optical Reader (character reader of typed data)

SECTION IV - COMPUTER ADMINISTRATION

51 1. Indicate the organizational placement of the *prime* computer which you use in your administrative applications for the admissions and registrar office. Under what office is the computer which services the majority of your applications located?

1 ☐ Admissions and/or registrar's office
2 ☐ Business or Finance Office
3 ☐ Combined Research-Academic and Administrative Computer Center under a single director
4 ☐ Administrative Computer Center separated administratively from the academic-research Computer Center
5 ☐ Academic Department (i.e., math dept., computer science dept., etc.)
6 ☐ Computer services obtained from services bureau or on a time sharing basis from outside institutions.

NOTE: Comment on any arrangement not adequately covered above.

52 2. Check the *prime* way in which you are assisted in computerizing admissions and registrar functions. That is, in what way is systems analysis and design *most frequently* accomplished for delivery to programmers?

1 ☐ A staff member, or members of the admissions and registrar office is assigned primary responsibility (i.e. has job title of systems analyst) for systems analysis and coordination with computer center programmers.
2 ☐ Administrative officers (admissions director, registrar) perform their own systems analysis.
3 ☐ Personnel from Computer Center assist in systems analysis and design.
4 ☐ Personnel from an office outside Computer Center (e.g. institutional studies, institutional research, computer science department) assist in systems analysis.

3. Indicate the *size* of the personnel staff associated with the computer center which services most of your admissions and registrar functions. Translate student programmers and operators into full-time equivalents. Include *entire* staff, not just those associated with admissions/registrar services.

53-54 ☐ Number of senior programmers and/or systems analysts

55-56 ☐ Number of junior programmers and/or trainees

57-58 ☐ Number of computer operators

59-60 ☐ Number of key punchers

60-61 ☐ Number of additional supporting staff, if any

62 ☐ Size of computer staff unknown or question not applicable

4. Check the manner in which decisions are made in your institution concerning priorities in computerizing *new* institutional services. In other words, when both the admissions-registrar office and another office, such as finance, need new services which require a decision on priority, who makes such a decision?

63
1 ☐ The computer center manager or director
2 ☐ The computer center director's immediate supervisor
3 ☐ A formal institutional committee having this responsibility
4 ☐ An informal institutional committee

5. Check the work schedule arrangement for the computer center which is the prime servicer of the admissions-registrar office.

64
1 ☐ Computer Center personnel usually work a day shift only and work evenings and nights only in emergencies
2 ☐ Computer center personnel usually work a day shift only and work evening and night shifts during peak periods which are known in advance.
3 ☐ Computer center personnel are routinely scheduled for a two-shift operation involving day and evening hours
4 ☐ Computer center personnel are routinely scheduled for a three-shift operation involving day, evening, and night hours
5 ☐ Work schedule not known or question not applicable.

SECTION V - COMPUTER APPLICATIONS

Please indicate the ways in which you are utilizing the services of computers in your admissions and registrar activities by following these instructions:

(1) If the application listed is "not in use" or "not in use but planned", check the appropriate box under these headings.

(2) If an application is "now in operation", indicate which of the two computers you described in Section III the application is associated with. If you listed only one computer there, you would check the top half of the box for any application "now in operation". If application utilizes both computers, check both boxes.

			Now In Operation	Not in Use But Planned	Not In Use
	Admissions				
65	1.	Collecting and organizing admissions data.	3 1 ☐ Comp I 2 ☐ Comp II	4 ☐	5 ☐
66	2.	Executing admissions decisions on the basis of programmed criteria (admit, reject, refer, etc.)	☐ ☐	☐	☐
67	3.	Notifying prospective students of admissions status.	☐ ☐	☐	☐
68	4.	Assisting in student recruiting by mailing prospective students information on your school	☐ ☐	☐	☐
69	5.	Making housing assignments.	☐ ☐	☐	☐
70	6.	Performing financial needs analysis for award of loans and scholarships.	☐ ☐	☐	☐
71	7.	Analyzing transfer work from other institutions.	☐ ☐	☐	☐
	Registration				
72	8.	Sectioning students by transferring student course requests into class space reservations.	☐ ☐	☐	☐
73	9.	Assessing registration fees.	☐ ☐	☐	☐
74	10.	Scheduling registration appointment times.	☐ ☐	☐	☐
75	11.	Preparing class schedule publications.	☐ ☐	☐	☐
76	12.	Preparing class rolls, locator cards, and/or other registration documents.	☐ ☐	☐	☐
77	13.	Processing change of course (add/drop) via terminal.	☐ ☐	☐	☐

Card 3
(Dup 2-6)

		Now In Operation	Not in Use But Planned	Not In Use
7	14. Notifying local selective service boards of student enrollment status.	3 1 ☐ Comp I 2 ☐ Comp II	4 ☐	5 ☐
	Records			
8	15. Setting up student academic records card by printing basic student (name address) information by computer	☐ ☐	☐	☐
9	16. Maintaining entire student record in computer storage (includes personal and all academic course data)	☐ ☐	☐	☐
10	17. Processing changes to computer record by means of remote terminal input.	☐ ☐	☐	☐
11	18. Making inquiry to computer record by means of remote terminal	☐ ☐	☐	☐
12	19. Executing decisions on academic status (i.e. probation, suspension) on the basis of established academic policy.	☐ ☐	☐	☐
13	20. Notifying student of academic performance by preparation of grade reports, etc.	☐ ☐	☐	☐
14	21. Assisting in analysis of student record for purposes of determining graduation eligibility.	☐ ☐	☐	☐
	Management Analysis			
15	22. Analyzing results of admissions decisions (i.e. number accepted, number rejected, reasons rejected, etc.)	☐ ☐	☐	☐
16	23. Analyzing enrollment trends (i.e. number of full time, part time students, number from particular states, counties, etc.)	☐ ☐	☐	☐
17	24. Analyzing utilization of space.	☐ ☐	☐	☐
18	25. Analyzing grading practices (i.e. number of A's awarded by department and course, etc.).	☐ ☐	☐	☐
19	26. Analyzing academic abilities and relative performance of students (i.e. relating test data and GPA, - predicting GPAs).	☐ ☐	☐	☐
20	27. Performing simulation analysis to assess the interaction effect of various institutional variables.	☐ ☐	☐	☐

SECTION VI - PROBLEMS IN COMPUTER USE

NOTE: Responses in this section will not be identified with any institution in the final report.

Please review the problems listed below and check the one which you feel has been most troublesome at your institution. CHECK ONLY ONE There may be several which you consider important, but you are to check only one entry. PROVISION IS MADE FOR THE CHIEF ADMISSIONS OFFICER AND THE CHIEF RECORDS-REGISTRATION OFFICER TO RESPOND SEPARATELY TO THIS QUESTION.

		Admissions Officer	Records-Registration Officer	
21, 22	1	☐	☐	Computer Center personnel do not understand and/or appreciate problems of admissions-registrar office.
	2	☐	☐	Admissions and registrar personnel do not understand enough about computers.
	3	☐	☐	Computer equipment currently available is not sufficient to do the kinds of things we want to do.
	4	☐	☐	Computer Center is not staffed with sufficient personnel.
	5	☐	☐	There is difficulty in obtaining computer services because of other pressing institutional needs for the computer.
	6	☐	☐	Lines of communication are too rigid and structured. Communication has to go through channels. There is little or no direct access to computer center personnel.
	7	☐	☐	Lines of communication are too formal. Absence of clear definition and documentation of procedures and services.
	8	☐	☐	Other. Please identify briefly. ______________

SECTION VII - METHOD OF ACQUIRING COMPUTER COMPETENCE

NOTE: RESPONSE IN THIS SECTION WILL NOT BE IDENTIFIED WITH ANY INSTITUTION IN THE FINAL REPORT.

Please check the experience below which you feel has contributed the most to your knowledge and understanding of computers. CHECK ONLY ONE. There may be several which you feel are important, but you are to check only one entry. PROVISION IS MADE FOR THE CHIEF ADMISSIONS OFFICER AND THE CHIEF RECORDS-REGISTRATION OFFICER TO RESPOND SEPARATELY TO THIS QUESTION.

23, 24

	Admissions Officer	Records-Registration Officer	
1	☐	☐	Attended special non-credit program for computer users which focused on basic concepts (i.e., IBM customer executive school, etc.).
2	☐	☐	Attended professional meetings at AACRAO where computer concepts and applications were discussed.
3	☐	☐	Attended seminar on Management of Data for Students (MODS)
4	☐	☐	Attended Machine Records Conference
5	☐	☐	Undertook personal reading and study.
6	☐	☐	Developed understanding from on-the-job experience.
7	☐	☐	Developed understanding from prior experience with unit record equipment.
8	☐	☐	Completed a course in computer programming for either credit or non-credit.
9	☐	☐	Other. Please identify briefly. ____________

SECTION VII - DESCRIPTION OF SIGNIFICANT COMPUTER APPLICATIONS

NOTE: Reponse to the questions in this section will necessarily involve institutional judgments concerning significant applications. Please report only one application for each question.

1. Describe concisely the computer application which has contributed to the efficiency of your **admissions and/or registrar** office by reducing operating costs or by holding operating costs in the face of growth. Give the name and title of the person who might be contacted for further information on this application.

Name of person to contact: ______________________

Title: ______________________

2. Describe concisely the application which you feel has had the greatest positive impact at your institution without regard for cost. Give the name and the title of the person who might be contacted for further information on this application.

Name of person to contact: ______________________

Title: ______________________

3. Describe concisely the most significant computer application which you are planning for your admissions and/or registrar office at this time. Give the name and address of the person who might be contacted concerning this planned application.

Name of person to contact: ______________________

Title: ______________________

THIS COMPLETES THE SURVEY INSTRUMENT. PLEASE TAKE THE FOLLOWING STEPS:

(1) Indicate the person primarily responsible for completion of the Instrument by printing full name here:

____
Last First Middle

(2) Staple the instrument together in the three places designated on the back cover and place in return mail. As you can see, return postage has been provided, and the back cover serves as the mailing cover.

(3) Mail six copies of your innovative and exemplary forms to Mr. Edwin Walker, Coordinator of Admissions and Records, Northern Virginia Community College, 8333 Little River Turnpike, Annandale, Virginia 22003.

First Class
Permit No. 1652
Memphis, Tenn.

BUSINESS REPLY MAIL
No Postage Stamp Necessary if Mailed in the United States

Postage will be paid by

E. G. BOGUE
DIRECTOR OF INSTITUTIONAL RESEARCH
MEMPHIS STATE UNIVERSITY
MEMPHIS, TENNESSEE 38111

STAPLE STAPLE STAPLE

APPENDIX B

RESPONSE DISTRIBUTION BY STATE

SURVEY RESPONSE DISTRIBUTION BY STATE

STATE	USING COMPUTERS Below 1000	1000 -4999	5000 -9999	10000 -14999	15000 -19999	20000 or over	Total	NOT USING COMPUTERS Below 1000	1000 -4999	5000 -9999	10000 -14999	15000 -19999	20000 or over	Total
Alabama	2	13	0	3	0	0	27	7	1	1	0	0	0	9
Alaska	0	1	0	0	0	0	1	2	0	0	0	0	0	2
Arizona	1	2	1	1	0	2	7	1	0	0	0	0	0	1
Arkansas	0	4	2	1	0	0	7	6	3	0	0	0	0	9
California	5	15	16	14	1	8	59	21	10	1	0	0	0	32
Colorado	4	7	3	1	1	1	17	2	4	0	0	0	0	6
Connecticut	1	6	4	0	0	1	12	8	2	0	0	0	0	10
Delaware	0	1	0	1	0	0	2	0	0	0	0	0	0	0
District of Columbia	0	0	3	1	2	0	6	2	0	0	0	0	0	2
Florida	2	17	4	0	4	2	29	7	2	0	0	0	0	9
Georgia	2	5	2	0	1	0	10	11	14	0	0	0	0	25
Hawaii	1	2	0	0	1	0	4	2	1	0	0	0	0	3
Idaho	1	1	2	0	0	0	4	1	2	0	0	0	0	3
Illinois	9	26	9	5	1	3	53	21	7	0	0	0	0	28
Indiana	8	21	2	0	2	2	35	5	1	0	0	0	0	6
Iowa	5	9	2	0	1	1	18	8	6	0	0	0	0	14
Kansas	11	2	3	2	1	0	19	10	3	0	0	0	0	13
Kentucky	1	3	4	1	1	0	10	6	4	0	0	0	0	10
Louisiana	1	4	5	2	1	0	13	6	1	0	0	0	0	7
Maine	1	0	0	1	0	0	2	4	3	0	0	0	0	7
Maryland	2	13	3	0	0	1	19	9	3	0	0	0	0	12
Massachusetts	10	16	2	1	1	2	32	12	8	0	0	0	0	20
Michigan	3	14	6	3	0	4	30	13	5	0	1	0	0	19
Minnesota	5	15	3	1	0	1	25	4	1	0	0	0	0	5
Mississippi	0	4	3	0	0	0	7	4	0	0	0	0	0	4
Missouri	9	5	7	2	1	1	25	25	3	0	0	0	0	28
Montana	1	3	2	0	0	0	6	0	1	0	0	0	0	1
Nebraska	5	4	1	1	1	0	12	7	3	0	0	0	0	10
Nevada	0	0	2	0	0	0	2	0	0	0	0	0	0	0
New Hampshire	0	1	0	1	0	0	2	5	1	0	0	0	0	6
New Jersey	0	13	3	0	1	1	18	5	3	1	1	0	0	10
New Mexico	1	4	1	1	0	0	7	1	2	0	0	0	0	3
New York	4	41	13	9	2	4	73	26	11	3	0	0	0	40
North Carolina	3	4	4	1	1	0	13	12	10	0	0	0	0	22
North Dakota	0	1	2	0	0	0	3	3	3	0	0	0	0	6
Ohio	3	22	3	7	3	3	41	17	5	0	0	0	0	22
Oklahoma	2	5	0	1	2	0	10	1	5	1	0	0	0	7
Oregon	4	9	0	1	1	0	15	4	2	0	0	0	0	6
Pennsylvania	13	31	7	2	1	3	57	26	10	2	0	0	0	38
Rhode Island	0	1	3	0	0	0	4	3	2	0	0	0	0	5
South Carolina	4	5	1	0	1	0	11	7	2	0	0	0	0	9
South Dakota	0	2	2	0	0	0	4	3	4	0	0	0	0	7
Tennessee	6	6	4	0	1	1	18	14	4	0	0	0	0	18
Texas	4	13	9	6	2	2	46	17	9	2	0	0	0	28
Utah	1	0	1	1	1	0	5	0	2	0	0	0	0	2
Vermont	0	3	1	0	0	0	4	4	2	0	0	0	0	6
Virginia	8	9	3	1	0	0	21	10	5	0	0	0	0	15
Washington	0	9	3	1	1	1	15	2	2	0	0	0	0	4
West Virginia	1	3	1	0	1	0	6	3	8	0	0	0	0	11
Wisconsin	6	5	5	3	1	0	20	8	4	0	0	0	0	12
Wyoming	0	1	1	0	0	0	2	0	0	0	0	0	0	0
Puerto Rico	0	0	1	0	0	1	2	0	0	1	0	0	0	1
Virgin Islands	0	0	0	0	0	0	0	1	0	0	0	0	0	1
Canada	0	5	8	6	2	1	22	2	0	0	0	0	0	2

APPENDIX C

RESPONSE OF INSTITUTIONS USING COMPUTERS

CODING SCHEMES FOR INTERPRETATION OF INSTITUTIONAL RESPONSES

ENROLLMENT

1 - Below 1000
2 - 1,000 - 4,999
3 - 5,000 - 9,999
4 - 10,000 - 14,999
5 - 15,000 - 19,999
6 - 20,000 or over

INPUT/OUTPUT

Y - Use this input/output device in admissions and/or registrar services.
N - Do not use this input/output device.

STORAGE

Numbers indicate number of storage units reported. (i.e. 4 under MAG TPE indicates 4 tape drives).

ADMINISTRATION OF COMPUTER

1 - Admissions and/or Registrar's Office
2 - Business or Finance Office
3 - Combined Research-Academic and Administrative Computer Center
4 - Separate Administrative Computer Center
5 - Academic Department
6 - External Service Arrangement
7 - Multiple option or options inapplicable.

SYSTEMS ANALYSIS

1 - Staff member of Admissions or Registrar Office is systems analyst.
2 - Administrators perform systems analysis.
3 - Computer Center personnel perform systems analysis.
4 - Personnel external to Computer Center perform systems analysis.
5 - Multiple options or options inapplicable.

SERVICE PRIORITY DECISIONS

1 - Made by computer manager.
2 - Made by computer manager's supervisor.
3 - Made by formal institutional committee.
4 - Made by informal institutional committee.
5 - Multiple option or inapplicable.

WORK SCHEDULE OF COMPUTER CENTER

1 - Day shift, evenings in emergencies.
2 - Day shift, evenings on peak loads known in advance.
3 - Routine two shift operation.
4 - Routine three shift operation.
5 - Multiple option or options inapplicable.

APPLICATIONS - (See questionnaire for applications associated with numbers)

O - Now in operation.
P - Planned for operation within next two years.
N - Not in operation.

```
NAME OF INSTITUTION          E COMPUTER    F INPUT/OUTPUT    STORAGE AC SA SS SP MS ********************APPLICATIONS*********************
                             N             I P P M P T T O O M D D D DO YN IT ER OC
                             R             N U A A R E E P P A I A R MM SA ZA RI RH
                             O               N P G I R R S R O S T U IP TL EF VO KE
                             L             A       N M M C E   K A M NU EY  F IR  D
                             M             R C T T T     A A Y        T MS O  CI  U
                             N             R R P P E   V N D P   C    E SI F  ET  L                   1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2
                             T               D E E R   T     R   L    S  S     Y  E 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7

********** ALABAMA

ALA AGRIC & MECH COLLEGE     2 IBM360-30   2 Y N N Y N N N N   2      3  3  6  5  1 P P P P N P N P P N N O N P O O N N P O P N O P P N N

ALABAMA COLLEGE              2 IBM360-20   1 Y N N N N N N N   2      3  3  4  3  2 O N N O O N N N N N N O N O O P N N O O O O O N O O P

ALABAMA STATE COLLEGE        2 IBM1620-I   1 Y N N N N N N N          1  1  0  2  2 O P O N P P N O O O O O P P P P N N P O P P O P P Y Y

AUBURN UNIVERSITY            4 IBM360-50   1 Y N Y Y Y N N N 4 6      3  2 23  5  3 N P N N N N N O O N O O N O O O P O O O N P O O O O N

BIRMINGHAM-SOUTHERN COLL     2 IBM1120     2 Y N N Y N N N N   1      2  3  0  3  2 P N N P N N N N O N O O N N N N N N P O P P P P P P Y

CALHOUN ST TECH JR COLL      2 IBM1401     1 Y N N Y N N N N   2      3  3  6  1  1 N N N N N N N N N N N N N N N N N N O O N N O N O P P

FLORENCE STATE COLLEGE       2 IBM1401     1 N N N N N N N N          4  5  5  2  1 N N N N N N N N N N N O N O O N N N O O N N O N O Y Y

GADSDEN TECH JR COLLEGE      2 IBM1130     1 Y N N N N N N N   1      3  3  6  2  1 O N N O N N N P P N N O O P P N O O O O O N O O N O O

JEFFERSON STATE JR COLL      2 IBM1130     1 Y N N Y N N N N   1      3  3  5  1  3 O N N O N N N N N O O O N N P P N N O O N N N O O N Y

SAINT BERNARD COLLEGE        1 IBM360-30   4 Y N Y Y N N N N 4 0 0 0  6  6  0  0  3 N N N N N N N N N N N N Y N N O N N N N N N O N N N N

SAMFORD UNIVERSITY           2 IBM1130     1 Y N N Y N N N N   1      3  3  7  2  2 O P N N N N N N N N N O N O O P Y N N N N N O N O O Y

SPRING HILL COLLEGE          1 IBM  1130   2 Y N N N N N N N   *      5  3  0  3  5 P P N N N P N N O N N O N N P N N N N O N P N N O P N

TUSKEGEE INSTITUTE           2 IBM1401       Y N Y Y N N N N 2 2      2  3  9  2  1 N N N N N N N P N N P O O P O P N N N O N N O O O N Y
                               IBM1620     2 Y N N N N N N N

UNIV OF ALABAMA              4 IBM360-30   1 Y N Y Y N N N N 3 3      4  3 29  3  3 P N N P P P P N O N P O N O N N N N O O N P O P O N P

U OF ALA CNTR-BIRMINGHAM     2 IBM360-50   1 Y N Y Y N N N N 8 8 0 0  3  3 33  1  4 O N N N N N N N O N O O O P O O P P O O O O O N O Y Y
                               IBM360-50   1 Y N Y Y N N N N                        O               O   O O O   O O     O O O O O   O

U OF ALA CNTR-HUNTSVILLE     2 UNI1108     6 Y N Y Y N N N N 10    6  3  3 16  1  3 P N N N N N N O O N N O N P P P N N P O N P P O O P N
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NAME OF INSTITUTION         E COMPUTER  F  INPUT/OUTPUT    STORAGE AC SA SS SP WS ********************APPLICATIONS********************
                            N           I P P M P T T O O M D D D DO VN IT ER OC
                            R           M U A A R E E P P A I A R MM SA ZA RI RH
                            O             N P G I R R S R G S T U IP TL EF VO KE
                            L           A       N M M C E   K A M NU EY  F IR  D
                            M           R C T T T     A A T        T MS O  CI  U
                            N           R R P P E   V N O P   C    E SI F  ET  L                   1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2
                            T             O F E R   I     E   L    R S        Y  E 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7

UNIV OF SOUTH ALABAMA       2 IBM360-40 1 Y N Y Y N N N N 2 5 0 0  3  3  4  1  3 P N O O N N N P P P O O N O N O N N O O N N O O O Y P


********** ALASKA

UNIVERSITY OF ALASKA        2 IBM360-40 1 Y N Y Y N N N N 3 2      3  3 17  1  3 O N N N P N N N P N N O N O O N Y N O O N O O Y Y Y N


********** ARIZONA

ARIZONA STATE UNIVERSITY    6 HON1200   1 Y N Y Y N N N N 4 2      2  1 35  1  3 O N N O N N N O O N P O N O N N N N N O N N O O O N N

ARIZONA WESTERN COLLEGE     2 IBM1130   1 Y N N N N N N N   2      3  3  7  3  2 O N O N N N N N O N P O N N N N Y N P O P N O N P P Y

GLENDALE COMM COLLEGE       3 IBM360-30 1 Y N Y Y N N N N 4 3      4  3 18  3  3 O N N N N N N O N N O O O O O O P P O O O N O P O P Y
                              IBM  1130 1 Y N N Y N N N N                                                 O
GRAND CANYON COLLEGE        1 IBM       4 Y N N N N N N N          6  2  1  4  5 N N N N N N N N N N N O N N O N Y N N O N N N N O N Y

MESA COMMUNITY COLLEGE      2 IBM360-30 1 Y N Y Y N N N N 4 3      3  3 24  2  2 O N N N N N N N P N N O O O O O P P O O O P O P N N N

PHOENIX COLLEGE             4 IBM360-30 1 Y N Y Y N N N N 4 2 0 0  3  3 22  2  3 O N N N N N N O P O O O N O O O N N O O O N O O O P Y
                              UNI9300   1 Y N N Y N N N N 4 0 0 0
UNIVERSITY OF ARIZONA       6 IBM1401   2 Y N Y Y N N N N 5 0 0 0  1  3 31  1  1 P P P N N N N O P N O O P   P P P P O O P N O O O   Y
                              CDC6400   1 Y N Y Y N N N N 4 1 0 0                                    O O   O         O O     O   O O

********** ARKANSAS

ARKANSAS POLYTECH COLL      2           4 N N N N N N N N          6  3 17  4  5 N N N N N N N N N N N   N N   N N N N N N N N N N N N
                                                                                                       O     O
ARKANSAS STATE UNIV         3 IBM360-30 2 Y N N Y N N N N 0 3 0 0  3  3 11  1  3 O N N N N N N N O N O O O N N P N N O O P N O O N O Y

HENDERSON STATE COLLEGE     2 IBM  1130 1 Y N N Y N N N N 0 2 0 0  3  3  8  1  1 O N P P N P N P P N P O N N O O N N O O N P O P O Y P

LITTLE ROCK UNIVERSITY      2 IBM1130   1 Y N N Y N N N N   1      3  3  5  1  2 N N N P N P N N N N N O O P N N N N P O N N O P P Y Y
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NAME OF INSTITUTION          E COMPUTER  F  INPUT/OUTPUT   STORAGE AC SA SS SP WS ********APPLICATIONS********
                             N           I P P M P T T O O M D D D DO YN IT ER OC
                             R           N U A A R E E P P A I A R MM SA ZA RI RH
                             O             N P G I R R S R G S T U IP TL EF VO KE
                             L           A       N M M C E   K A M NU EY  F IR  D
                             M           R C T T T     A A T        T MS O  CI  U
                             N           R R P P E   V N D P   C    E SI F  ET  L                   1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2
                             T             D E E R   I     E   L    R  S     Y  E 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7

SOUTHERN STATE COLLEGE       2 IBM  1130 1 Y N N N N N N N   1       1  1  6  1  1 0 N N N 0 0 N N N N 0 0 N N N N N N 0 0 N N 0 N 0 N N

STATE COLL OF ARKANSAS       3 IBM1401   1 Y N N Y N N N N 0 2 0 0   1  3  4  2  1 0 N N N N N N N 0 N N 0 N N 0 P N N N 0 N N 0 N 0 N N

UNIVERSITY OF ARKANSAS       4 IBM1460   1 Y N Y Y N N N N 2 3       2  3 13  3  3 0 N N N N N N 0 P N 0 0 0 N 0 P P P P 0 P P 0 P 0 N N
                               IBM360-25 1 Y N Y Y N N N N 2 2                     0             0     0 0 0   0         0     0   0

********** CALIFORNIA

ANTELOPE VALLEY COLLEGE      2 IBM360-20 1 Y N N N N N N N               1  3  5  2  1 0 N N N N N N N N N 0 0 0 0 0 N N N 0 0 N N 0 0 0 0 N

BIOLA COLLEGE                2 IBM1130   1 Y N N Y N N N N 0 2 0 0   3  3  7  3  3 N N N N N N N N N P P 0 0 N 0 P N N P 0 P N N N 0 P N

CALIF ST COLL-DOMINGUEZ      2 CDC3300   1 Y N Y Y Y N N N 4 4       6  3  5  1  1 P N N N N N N N N N N P N N N N N N N P N N 0 N N N N
                               UNI9200   1 Y N N N N N N N

CALIF ST COLL-FULLERTON      4 CDC3150   1 Y N Y Y Y N N N 2 2 0 0   3  3 14  3  3   N P N N N P N   0 0 N 0 0 0 N N 0 0 N 0 0 0 0 0 P
                               CDC3300   1 Y N Y Y Y N N N 5 4 0 0                 0                 0   0     0 0     0 0   0 0 0 0

CALIF ST COLL-HAYWARD        3 HON200    4 Y N Y Y N N N N 4         6  3  8  1  3 0 N N N N N N P 0 N P 0 N 0 0 P N N 0 0 P 0 0 P     0
                               IBM1620   2 Y N N N N N N N                                                                 0 0

CALIF ST COLL-LONG BEACH     6 UNI1108   4 N N Y N Y N N N 8    14   3  3 16  1  2 0 P P N N N N 0 0 N 0 0 0 N 0 P 0 0 0 0 P P 0 0 0 P P
                               CDC3300   5 Y N Y Y N N N N 4 3

CA ST COLL-LOS ANGELES       6 IBM1401   1 Y N Y Y N N N N 4 0 0 0   3  1 21  2  4 0 P P 0 N N P P N 0 P 0 P P 0 0 P P 0 0 P N 0 0 0 P N
                               CDC3300   1 N N Y N N N N N 4 3 0 0

CALIF STATE POLYTECH COL     4 IBM360-40 1 Y N N Y N N N N   2       3  3 10  1  2 P N P P N N N P N P 0 0 P P 0 P P P 0 0 P 0 0 0 0 P N

CERRITOS JUNIOR COLLEGE      4 HONM-200  1 N N N N N N N N 4 1       3  3  7  4  3 0 0 N N N N N N N 0 0 0 N N 0 0 N N 0 0 N N 0 N 0 N N

CHAPMAN COLLEGE              2           4 N N N N N N N N           6  5  0  5  5 N N N N N N N N N N N N N N N N N N N N N N N N N N N

CHICO STATE COLLEGE          4 IBM360-20 1 Y N N Y N N N N 0 0 0 0   3  1  8  1  3 0 P 0 N 0 P P P P N 0 0 N 0 P N N N 0 0 0 0 0 0 0 N N

CITY COLL SAN FRANCISCO      4 IBM1401   1 Y N Y Y N N N N 4 2 0 0   3  1  7  4  3 P N N N N N N 0 N 0 0 0 N 0 0 P N N 0 0 N N 0 P 0 N N
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NAME OF INSTITUTION        E COMPUTER   F  INPUT/OUTPUT   STORAGE AC SA SS SP WS ************************APPLICATIONS*****************
                           N            I P P M P T T O O M D D D DO YN IT ER OC
                           R            N U A A R E E P P A I A R MM SA ZA RI RH
                           O              N P G I R R S R G S T U IP TL EF VO KE
                           L            A       N M M Ç E   K A M NU EY  F IR  D
                           M            R C T T T     A A T        T MS O  CI  U
                           N            R R P P E   V N D P   Ç    E SI F  ET  L                   1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2
                           T              D E E R   I     E   L     R  S     Y  E 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7

COLL OF THE HOLY NAMES     1            5 N N N N N N N N          6  2  0  5  5 N N N N N N N N N N N N N N N N N N N N N N N N N N N

COLLEGE OF MARIN           3 IBM1401    1 Y N Y Y N N Y N 2 2 0 0  5  3  5  3  1 O P P O N P N O P P N O N P O O N N O O P N O P O N N

CONTRA COSTA COLLEGE       3 IBM1401    1 Y N Y Y N N Y N 2 4 0 0  4  3 10  3  3 O N O O N N N O N O O O O O O O P P O O O O O O O O P
                             IBM2780    4 N N N N N N N N 2 8 0 0

DE ANZA COLLEGE            3 IBM360-40  2 N N N N N N N N   5      2  3 10  4  3 O N N N N N N P N P O O P O O O P P O O P P P P P P Y

DIABLO VALLEY COLLEGE      4 IBM1401    1 Y N Y Y N N Y N 2 4      4  3 10  3  3 O N O O N N N O N O O O O O O O P P O O O O O O O O P
                             IBM1130    1 N N N N N N N N   3

FOOTHILL COLLEGE           3 IBM360-40  1 Y N N Y N N N N   5      3  3 10  4  3 O N N N N N N N N P O O P O O O P P O O P P O P O P Y

FRESNO STATE COLLEGE       4 IBM1620-2  1 Y N N N N N N N 0 1 0 0  3  2  0  3  3 O N N N N N N P N O O O N P O P N N O O N O O N N N N

GROSSMONT COLLEGE          3 IBM1401    1 Y N N Y N N N N 0 3 0 0  3  2  7  1  3 O N O N N N N N N O N O N O N N N N O O N N O N O Y Y

HARTNELL COLLEGE           2 IBM1130    1 N N N N N N N N   1      2  3  2  3  1     P P P O O P P P   P           P
                                                                                 O O                 O   O O O O O   O O O O O O O O O

HARVEY MUDD COLLEGE        1 IBM  1620  3 Y N N N N N N N          5  4  3  5  5 N N N N N N N N   N N O N N N N N N N O N N   N Y Y Y
                             IBM360-40  5 Y N Y Y N N N N 4 2 0 0                                O                           O

HUMBOLDT STATE COLLEGE     3 IBM1620    1 Y N N N N N N N 0 1 0 0  3  2  5  2  2 O N N O N O N O O N O O O N N N N N O O P O O O N O P

LOMA LINDA UNIVERSITY      2 IBM1620    3 Y N N Y N N N N 1 2 0 0  3  2  4  4  2 O N N N N   O N   N   O N N   N N N Y     N   N   Y Y
                             IBM1130    1 Y N N Y N N N N 0 3                    O         O     O   O O     O         O O   O   O

LONG BEACH CITY COLLEGE    6 UNI5590    1 Y N Y Y N N Y N 6 0 0 0  2  3  0  2  2 N N N N N N N N N N N N N N P P N N O O N N O N P P Y

MENLO COLLEGE              1 BUR B5500  4 N N N N N N N N 6 9 0 0  6  4  0  4  5 N N N N N N P N O N P O P N N N P P O O P P P N O P Y

MERCED COLLEGE             2 IBM360-20  1 Y N N Y N N N N 0 0 0 0  3  3  5  2  1 P N N O N N N P N N N O O P O O N N O O N N Y N O O O

MODESTO JUNIOR COLLEGE     3 IBM1401    2 Y N N Y N N N Y 0 3 0 0  3  3  5  1  1 O N N N N N N O N N O O N N P O Y N O O N N O N O Y Y
                             IBM1620    2 Y N N N N N N N 0 0 0 0                                    O
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NAME OF INSTITUTION         E COMPUTER    F  INPUT/OUTPUT   STORAGE AC SA SS SP WS ••••••••••••••••••••APPLICATIONS••••••••••••••••••••
                            N             I P P M P T T O O M D D D DO YN IT ER OC
                            R             N U A A R E E P P A I A R MM SA ZA RI RH
                            O               M P G I R R S R G S T U IP TL EF VO KE
                            L             A       N M M C E   K A M NU EY  F IR  D
                            M             R C T T T     A A T        T MS O  CI  U
                            N             R R P P E   V M D P   C    E SI F  ET  L                   1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2
                            T               D E E R   I     E   L    R S      Y  E 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7

MT SAN ANTONIO COLLEGE      4 IBM1401     1 Y N Y Y N N N N 3 4 0 0  3  3 11  1  3 0 N 0 N N N N N N 0 0 0 0 0 0 0 P P 0 0 P N 0 0 0 0 Y

OCCIDENTAL COLLEGE          2 IBM1401     1 Y N N Y N N N N 0 3 0 0  3  3  3  4  2 N N N N N N N P P P 0 0 N 0 0 0 Y N N 0 0 P 0 P P P Y

PACIFIC UNION COLLEGE       2 IBM1401     1 Y Y N Y N N N N   2      3  3  5  1  2 P N P N N N N P 0 N 0 0 N N 0 P Y N N 0 N Y 0 P 0 Y Y
                              CDCG-15     2 N N N N N N N N 1

PASADENA CITY COLLEGE       4 IBM1401     4 Y N N Y N N Y N          6  5  0  5  5 N N N N N N N N N N 0 N N N N N N N 0 0 N N N N N Y Y

PEPPERDINE COLLEGE          2 IBM360-30   4 Y N Y Y N N N N          1  1  0  5  5 N N N N N N N N N N N 0 N N 0 0 Y N Y N 0 N 0 N 0 Y Y

PITZER COLLEGE              1 IBM1620     5 Y N N N N N N N          5  4  3  4  5 0 N N N N N N N   N N 0 N N N N Y N Y 0 N 0   N Y Y Y
                              IBM360-40   5 Y N Y Y N N N N 4 2 0 0                                 0                           0

POMONA COLLEGE              2             4 N N N N N N N N          6  5  0  5  5 N N N N N N N N N N N N N N N N Y N N Y N Y Y N Y Y Y

RIO HONDO JUNIOR COLLEGE    3 IBM1401     4 N N N N N N N N   2      6  1  1  5  3 0 N N N N N N N N N N 0 P N 0 N Y N N 0 N N 0 N 0 N Y

RIVERSIDE CITY COLLEGE      3 IBM1620     1 Y N N Y N N N N   3      1  3  6  2  3 0 N N N N N N P P P P 0 P 0 0 P P P 0 0 P 0 0 0 0 0 P
                              IBM1401     4 Y N Y N N N N N 2 2

SACRAMENTO STATE COLLEGE    4 IBM    402  1 Y N N N N N N N 0 2 0 0  4  3 19  2  3 0 N P N N N P P P N 0 0 N 0 N P Y N 0 0 0 0 0 0 0 0 Y

ST MARYS COLL OF CALIF      1 IBM360-25   5 Y N N Y N N N N   3      3  3  5  1  1 N N N N N N N N N N 0 0 N N N N Y N N 0 N N 0 N 0 Y Y

SAN DIEGO STATE COLLEGE     6 IBM360-40   2 Y N Y Y N N N N 4 5 0 0  3  3 17  1  4 0 N 0 0 N P N N N N 0 0 P 0 0 P P P N 0 0 0 0 0 0 Y Y

SAN FERNANDO VAL ST COLL    6 GE    415   4 Y N Y Y N N N N 8 3      4  3 16  1  2 0 N 0 N N N N N N N 0 0 N 0 0 0 0 P 0 0 P 0 P P 0 Y Y
                              GE    225   2 Y N Y Y N N N N 4 0                    0   0               0 0   0 0 0 0   0 0   0     0

SAN FRANCISCO ST COLLEGE    5 CDC 33000   5 Y N Y Y N N N N          6  4  0  0  4 0 N 0 N N N N P 0 N P 0 0 N 0 0 0 P N 0 N 0 0 P 0 Y Y

SAN JOSE CITY COLLEGE       4 IBM1401     1 Y N Y Y N N Y N 2 2      1  2  6  5  3 0 N P 0 N N N P N P 0 0 P 0 0 0 P P 0 0 P P 0 0 0 0 Y

SAN JOSE STATE COLLEGE      6 BUR5500     4 Y N Y Y N N N N 6 2      6  1 27  4  4   N     N N N P P N   0 N 0 P N N P 0 0 0     P 0 Y P
                              CDC3300     5 Y N Y Y N N N Y 4 3                    0   0 0             0 0   0               0 0
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NAME OF INSTITUTION        E COMPUTER   F INPUT/OUTPUT    STORAGE AC SA BS SP WS ********************APPLICATIONS*******************
                           N            I P P M P T T O O M D D D DO YN IT ER OC
                           R            N U A A R E E P P A I A R MM SA ZA RI RH
                           O              N P G I R R S R G S T U IP TL EF VO KE
                           L            A       N M M C E   K A M NU EY  F IR  D
                           M            R C T T T     A A T       T MS O  CI  U
                           N            R R P P E   V N D P   C     E SI F  ET  L                   1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2
                           T              D E E R   I     E   L    R  S     Y  E 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7

SANTA ROSA JUNIOR COLL     3            4 N N N N N N N N          6  3  0  4  5 P N N N N N N N N N P O N P P N N N P P N Y P N Y Y Y

SONOMA STATE COLLEGE       2 IBM360-20  4 N N N N N N N N          6  2  2  1  3 N N N N N N N N N N O O O N O N N N O O N N O O O Y Y

SOUTHWESTERN COLLEGE       3 IBM360-20  1 Y N N N N N N N   2        1  3  5  2  2 O N N N N N N O N N O O N O O N N N O O N N O O O P Y
                             IBM360-65    Y N Y Y N N N N 2                                    O

STANFORD UNIVERSITY        4 IBM360-40  1 Y N Y Y N N N N 8 8        2  3 51  1  4 O N N N O N N N O N P O P N O O P P N O N O O P O O Y

U S INTERNATIONAL UNIV     2 IBM360-30  4 Y N Y N N N N N   2        6  2  0  2  1 O N O N P N N P P P P P P P P P P P P O P O P P O P P

UNIV OF CALIF-BERKELEY     6 IBM1460    1 Y N Y Y N N N N 2 3        1  1  0  2  3 O O O N N N N N O O O O N N O O N N O O O O O O O O O

UNIV OF CALIF-DAVIS        4 IBM7074    2 Y N Y Y N N Y N 7 0 0 0  3  2 20  3  3 O N N N N N N O O N O O N N O O N N O O O N N O O Y Y
                             IBM360-50  1 Y N Y Y N N N N10 0 0 0                O

UNIV OF CALIF-IRVINE       3 IBM360-40  1 Y Y Y Y N N N N 4 0 0 0  2  1  0  1  4 O N O N N P N P O N N O N O N O N N O O N O O O O N Y
                                360-30  1 Y N Y Y N N N N 4 4 0 0                                O     O       O     O O     O O O

UNIV OF CALIF-RIVERSIDE    3 IBM360-30  1 Y N Y Y N N N N 4 0 0 0  2  3  0  1  4 O N O N O P N P O N N O N P O O N N O O P O O O O N Y
                             IBM360-40  1 Y N Y Y N N N N 4 4 0 0                O   O   O       O     O     O O     O O   O O O O

UNIV OF CALIF-SAN DIEGO    2 BUR  5500  1 Y N Y Y N N N N 0 2 0 0  3  1 15  4  4   N N N N P N N N N O O N P     P N P   P P         P
                             IBM360-75  1 Y N Y Y N N Y N 6 4 0 0                O                           O O       O     O O O O

U OF CA-SANTA BARBARA      4 IBM360-75  2 Y N Y Y N N N N 212 0 0  3  4 18  3  4 O N P N N N N O O N O O P O P P P P O O N P O N O Y Y
                             IBM360-20  2 Y N Y Y N N N N 2 0 0 0

UNIV OF CALIF-SANTA CRUZ   2 IBM360-40  2 Y N Y Y N N N N 3 4 0 0  4  1  0  5  3 O P P P P P P N O N N O P O O O P P N O N P     P P P
                             IBM360-65  2 Y N Y Y N N N N 5 1 0 0                                                            O O

UNIV OF THE PACIFIC        2 IBM1401    1 Y N Y Y N N N N 4 2        3  3  8  4  2 O N N O N N P P O N P O P N O O N N N O P P O P P P Y
                             LGP30      2 N N N N N N N N

UNIV OF SAN FRANCISCO      3 IBM1130    1 Y N N N N N N N 0 3 0 0  3  3  9  2  2 O O O O O N N   O N   O N N     N N N     N   N P O Y
                             IBM360-30  4 Y N Y Y N N N N 4 4 0 0                              O     O       O O       O O   O

UNIV OF SANTA CLARA        3 IBM1401    1 Y N N Y N N N N   5        3  3 12  3  3 O P P P N O N N O N O O N N O O N N N O N O O N O O Y

UNIV OF SOUTHERN CALIF     6 IBM360-30  1 Y N Y Y N N Y N 2 4 0 0  2  3 30  4  4 P N N N N N N N N N P O Y Y O P Y Y O O N P O Y Y Y Y
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NAME OF INSTITUTION       E COMPUTER  F INPUT/OUTPUT    STORAGE AC SA SS SP WS *********************APPLICATIONS**********************
                          N           I P P M P T T O O M D D D DO YN IT ER OC
                          R           N U A A R E E P P A I A R MM SA ZA RI RH
                          O             N P G I R R S R G S T U IP TL EF VO KE
                          L           A       N M M C E   K A M NU EY  F IR  D
                          M           R C T T T     A A T        T MS O  CI  U
                          N           R R P P E   V N D P   C    E SI F  ET  L                   1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2
                          T             D E E R   1     E   L    R S      Y  E 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7

********* COLORADO

ARAPAHOE JUNIOR COLLEGE   2 UNI9200   4 Y N N N N N N N            6  2  5  1  1 N N N N N N N N N N O O N N O N N N N O N N N N O N N

COLORADO COLLEGE          2 CDC6400   4 Y Y Y Y N N N N 5 0 0 1    6  3 34  4  3 O N N N O N N P N N O O N P O P N N N O N N O N O N N

COLORADU STATE COLLEGE    4 IBM360    1 Y N Y Y N N N N 4 2        3  3 21  4  3 P P P P P O N N P P N O P O O P N N P O N P O P O O N

COLORADO STATE UNIV       5 IBM1401   2 Y N Y Y N N N N 2 2        3  3 46  1  3 O O O O O O N P   P O O P O O P P P   O O O O O O O P
                            CDC6400   2 Y N Y Y N N N N 5 1                      O       O       O     O   O         O O O   O O O O

LORETTO HEIGHTS COLLEGE   1           4 N N N N N N N N            6  5  0  5  5 N N N N N N N N N N N N N N N N N N N N N N N N N N N

MESA COLLEGE              2 IBM1401   1 Y N N Y N N N N   2        3  3  4  2  1 O N N N N P N N N O O O O N O O O N O O O P O O O O O

METROPOLITAN STATE COLL   3           1 N N N N N N N N            2  2 11  2  1 O N N O N N N O P N N O N O N N N N N O N O N N N N N

OTERO JUNIOR COLLEGE      1 IBM1620   2 Y N N Y N N N N   2        5  3  3  1  2 O N N O N N N N N N O O O N O N N N O O O N O O N O N

REGIS COLLEGE             1 CDC 3600  4 N N N N N Y N Y 1 1   1    1  5 23  4  4 O N N N N N N O O O O O O N O O O O O O O O O O O O O

SOUTHERN COLORADO ST COL  3 IBM360-30 2 Y N Y Y N N N N 4 2 0 0    3  3 12  1  2 O N O O O N N N O O N O N O O O N N O O P O O P O O P

TRINIDAD STATE JR COLL    2 IBM1401   2 Y N N Y N N N N 0 1 0 1    3  3  6  1  1 O O O O P O P P O P P O O P O P N N P O O P P P O O P

U S AIR FORCE ACADEMY     2 IBM1401   2 Y N Y Y N N Y N 4 0 0 0    2  3 36  4  4 O O O O O N N O O N O O P N O O P P O O   O O   O O O
                            BUR5500   2 Y N Y Y N N Y N 4 2 0 0                                              O       O   O     O   O

UNIV OF COLO-BOULDER      6 CDC6400   2 Y Y Y Y N N N N 6 3 0 0    7  4 33  4  2 O P O N N N P O O O O O N N O P N N       P   N N N P
                            IBM360-40 2 Y N Y Y N N N N 5 3                                          O O     O       O O O   O

U OF COLO-COLORADO SPRGS  2 IBM360-40 4 Y N Y Y N N N N            6  2  0  4 [illegible] O N P O N N N N O N O O O P O N P P N O O O O P P O P
                            IBM360-30 4 N N Y Y N N N N                      O     O         O   O O O   O         O O O O     O

UNIV OF COLO-DENVER CNTR  2 IBM360-40 4 Y N Y Y N N N N            6  2  0  4  5 O N P O N N N N O N O O O P O N P P N O O O O P P O P
                            IBM360-30 4 N N Y Y N N N N                      O     O         O   O O O   O         O O O O     O
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NAME OF INSTITUTION        E COMPUTER   F INPUT/OUTPUT    STORAGE AC SR SS SP WS *******************APPLICATIONS*********************
                           N            I P P M P T T O O M D D D D D  VA IT ER OC
                           R            N U A A R E E P P A I A R MM SA ZA RI RH
                           O              N P G I R R S R G S T U IP TL EF VO KE
                           L            A       M A M C E   K A M NU EY  F IR  D
                           M            R C T T Y     A A T        T MS O  CI  U
                           N            R R P P E   V N D P   C    E SI F  ET  L                   1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2
                           T              O E E R   I     E   L    R  S     Y  E 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7

UNIV OF COLO-MEDICAL SCH   1 IBM1401    1 Y N N Y N N N N 4 3 0 0  3  3 31  3  4 N N N N N N N N N N N N N N N N N N N N N N N N N N N

UNIVERSITY OF DENVER       3 IBM1401B   1 Y N N Y N N N N 0 0 0 0  2  4 17  2  1 O P N N P N N P O O O O N O N N N N N O N P O P O N N

WESTERN ST COLL OF COLO    2 IBM360-30  1 Y N Y Y N N N N 2 2 0 0  3  3  5  1  1 P N N N N N N N N N P P N N N P N N O O N N O P O N N


********** CONNECTICUT

CENTRAL CONN STATE COLL    3 IBM360-25  1 Y N N Y N N N N 0 2 0 0  3  1  8  1  3 O P P N N N N N O O O O N P O P N N O O O P O O O N N

CONNECTICUT COLLEGE        2            4 N N N N N N N N          6  4  0  5  5 O N N N N N N N N N N N N N N N N N N N N O N N N N N

EASTERN CONN STATE COLL    2 IBM360-30  4 Y N Y Y N N Y N          6  4  0  5  5 N N N N N N N N N O N O O N O N N N N O N N N N N N N

NEW HAVEN COLLEGE          2 IBM1130    1 Y N N N N N N N   1      3  3 10  1  3 P N N N P P N O O O O O N N O P N N P O O P O O O N N

NORWALK COMM COLLEGE       2            4 N N N N N N N N          6  5  0  5  5 N N N P N N N N N P O O P N N O P N P O P N O N O N N

QUINNIPIAC COLLEGE         2 UNI9300    1 Y N Y Y N N N N 4        3  3  3  3  2 O O N O N N N N O N N O N N O O O N P O N O O N O N N

SACRED HEART UNIVERSITY    2 BUR    280 4 Y Y Y Y N N N N 3 2 0 0  6  3  0  0  5 N N N N N N N N N N N N N N O O N N N O N N N N O N N

U S COAST GUARD ACADEMY    1 IBM1620    2 Y N N N N N N N 0 2 0 0  5  5  2  2  1 N O O N N N N O N N O O N N O N N N O O O N P N N P N

UNIVERSITY OF BRIDGEPORT   3 NCR200     1 Y N N Y N N N N   3      3  3 11  5  3 O N N O N P N N N O N O O N N N N N N O N O O P O N P

UNIV OF CONNECTICUT        6 IBM360-30  1 Y N Y Y N N N N 4 1      4  4 24  2  4 O O O N O P N O O N P O N O P O N N O O P O O N N O N
                             IBM360-65  2 Y N Y Y N N N N 4 1 1                  O O O         O       O   O   O           O       O
UNIVERSITY OF HARTFORD     3 IBM360-20  1 Y N Y Y N N N N 4        4  3  9  2  2 O N N O N N N N N N N O N O P O N N O O O O O N P N N

YALE UNIVERSITY            3 IBM360-40  1 Y N Y Y N Y N N 5 16     4  3  0  3  3 O P O N N N N N N N O N P O O O P P N P P O O P N N O
                             IBM1401-G  1 Y N Y Y N N N N 4
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NAME OF INSTITUTION          E COMPUTER   F INPUT/OUTPUT    STORAGE AC SA SS SP WS ********************APPLICATIONS*********************
                             N            I P P M P T T O O M D D D DO YN IT ER OC
                             R            N U A A R E E P P A I A R MM SA ZA RI RH
                             O              N P G I R R S R G S T U IP TL EF VO KE
                             L            A       M M M C E   K A M NU EY  F IR  D
                             M            R C T T Y     A A T        T MS O  CI  U
                             N            R R P P E   V N D P   C    E SI F  ET  L                    1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2
                             T              D E E R   I     E   L    R  S     Y    1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7

********** DELAWARE

DELAWARE STATE COLLEGE       2 IBM1130    2 Y N N N N N N N 0 1 0 0  2  3  4  3  2 P N N N N N N O P N O O N P N P N N O O N N O O O N N

UNIVERSITY OF DELAWARE       4 SDS9300    1 Y N Y Y N N N N 4 2 0 0  3  5 44  5  3 O N N N P N P O P N O O O O O P P P O O P O O O P O N
                               IBM1401    1 Y N Y Y N N N N 4 0 0 0                O                   O O O O O         O   O O

********** DISTRICT OF COLUMBIA

AMERICAN UNIVERSITY          5 IBM360-30  1 Y N Y Y N N N N 4 3 0 0  3  0 23  4  3 O N N N N N N N O N N O N O O P N N N O N O O O O O O

CATHOLIC UNIV OF AMERICA     3 IBM1401    1 Y N Y Y N N N N 4 2 0 0  4  3 13  4  3 O P P O O P P P O P P O N O P P N N N O O O O P O P P
                               DECPDP10   2 N N N N N N N N 2 0 0 1
GEORGE WASHINGTON UNIV       4 IBM360-30  1 Y N Y Y N N N N 4 3 0 0  2  3 44  3  3 O N O N O O N O N N N O N N P N N N N O N O O N O O N

GEORGETOWN UNIVERSITY        3 IBM360-30  1 Y N Y Y N N N N 2 5 0 0  4  3 25  1  3 O N N N N N N P P N N O N O O N N N N O N O P P O O N
                               IBM360-40  1 Y N N Y N N N N
HOWARD UNIVERSITY            3 IBM360-50  1 Y N Y Y N N Y N 4 5 0 0  3  3 25  1  4 O P P N N N N O O O O O P N N P P P P O N P P P O N N

U S DEPT AGRIC GRAD SCH      5            4 N N N N N N N N          6  5  0  5  5 N N N N N N N N N N N N N N N N N N N N N N N N N N N


********** FLORIDA

BARRY COLLEGE                2 IBM360-30  4 Y N Y Y N N N N 4 3      6  3  0  3  5 N N N N N N N N N N N O O N P O N N N O P N P P P N N

BISCAYNE COLLEGE             1            4 N N N N N N N N          6  1  0  5  5 N N N N N N N N N N O O O N O N N N N O O N N N N N N

BREVARD JUNIOR COLLEGE       3 IBM360-30  4 Y N Y Y N N N N 4 2 0 0  6  3 40  4  2 N N N N   P N N O N P O N O O N N N O O P N O P O P P

DAYTONA BEACH JR COLLEGE     2 IBM  1130  1 Y N N Y N N N N   1      2  3  7  1  2 O N O O N N N N O O O O O N O N N N O O O O O O O O N

EMORY-RIDDLE AERO INST       2 IBM1130    4 Y N N Y N N N N 0 1 0 0  2  3  4  1  1 N N N P N N N N P P P O N N P P N N O O P N P P O N N
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NAME OF INSTITUTION      E COMPUTER  F INPUT/OUTPUT    STORAGE AC SA SS SP WS ********************APPLICATIONS*********************
                         N           I P P M P T T O O M D D D DO YN IT ER OC
                         R           N U A A R E E P P A I A R MM SA ZA RI RH
                         O             N P G I R R S R G S T U IP TL EF YO KE
                         L           A       N M M C E   K A M NU EY  F IR  D
                         M           R C T T T     A A T        T MS O  CI  U
                         N           R R P P E   V N D P   C    E SI F  ET  L                   1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2
                         T             D E E R   I     E   L    R  S     Y  E 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7

FLORIDA ATLANTIC UNIV    3 IBM360-40 1 Y N Y Y N N N N 4 4 0 0  3  3 16  2  4 0 P N 0 0 N P P P 0 0 0 P 0 0 0 P P 0 0 0 0 0 0 0 0 0

FLORIDA INST OF TECH     2 IBM1130   1 Y N N Y N N N N   3      4  3  7  1  1 0 P P 0 0 0 N 0 0 N 0 0 0 N 0 P N N 0 0 0 P P 0 P P P

FLORIDA JUNIOR COLL      5 IBM1401   1 Y N Y Y N N N N 2 3      2  3 13  3  1 0 N 0 P N N P P 0 0 0 0 P 0 N 0 P P 0 0 P N 0 0 0 P N

FLORIDA STATE UNIVERSITY 5 HON1200   1 Y N Y Y N N Y N 5 2 0 0  4  3 34  3  4 0 N 0 N 0 N 0 N 0 0 0 0 N 0 0 N N N 0 0 N 0 0 0 0 N N
                           CDC6400   1 Y N Y Y N N N N 6 1 0 0
                                                                                                                            0
JACKSONVILLE UNIVERSITY  2 IBM1401   4 Y Y N N N N N N          6  3  7  4  3 0 P P P P P N P 0 0 P 0 P 0 0 0 P P P 0 P 0 0 P 0 0 0

MANATEE JUNIOR COLLEGE   2 IBM360-30 2 Y N Y Y N N N N 2 3      7  3 13  1  1 0 N P N N N N N               P P P     P P         N
                           IBM1620   2 Y Y N Y Y N N N 0 2                    0               0 0 0 0 0 0 0       0 0     0 0 0 0

MIAMI-DADE JR COLLEGE    6 IBM360-50 1 Y Y Y Y Y Y N N 5 8 0 0  3  3 40  3  4 0 N 0 N N N N P 0 0 0 0 P 0 0 P P 0 0 0 0 N 0 0 0 P P
                           IBM1130   1 N N N N N N N N

NORTH FLORIDA JR COLLEGE 2 IBM1130   2 Y N N N N N N N   1      4  3  4  2  2 P P P P N P N N N N N 0 N N P P N N 0 0 P N 0 N 0 N N

OKALOOSA-WALTON JR COLL  2 IBM1401   1 Y N N Y N N N N 0 2 0 0  3  3  3  2  1 0 N N N N N N 0 N N 0 0 0 N P P N N P 0 N N 0 N 0 N N

PALM BEACH JR COLLEGE    3 IBM1401   2 Y N N Y N N N N   3      3  3 11  1  2 0 N N N N N 0 0 0 0 0 0 N N 0 0 N N 0 0 N N 0 0 N 0 N

ROLLINS COLLEGE          2 IBM  1620 1 Y N N N N N N N 0 0 0 0  3  2  4  1  1 0 N N N N N N N N N N N N N N 0 N N N N N N N N N N N

ST JOHNS RIVER JR COLL   2 HONH-200  2 Y N Y Y N N N N 4        3  3  5  1  1 P P P P N N P N 0 P N 0 N 0 0 0 N N 0 0 P P 0 0 0 N N

SAINT LEO COLLEGE        2 IBM1130   1 Y N N N N N N N   1      3  3  0  2  1 0 N N 0 0 N N P 0 P 0 0 0 N 0 0 0 0 P 0 0 0 0 0 0 0 N

ST PETERSBURG JR COLLEGE 3 BURB2500  1 Y N Y Y N N Y N 3 2 0 0  3  3 13  3  3 P N N N N N N P P N 0 0 P 0 N P P P 0 0 N N P P 0 P P

SANTA FE JUNIOR COLLEGE  2 IBM360-30 4 Y N Y Y N N N N 4 2 0 0  6  3  0  1  5 0 N P P N P P N P P P 0 P P 0 P P P N 0 P N P P N P P

SOUTH-EASTERN BIBLE COLL 1           4 Y Y N N N N N N          6  5 10  3  4 N N N N N N N N N N N N N N 0 0 N N P 0 0 N N N P P N
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NAME OF INSTITUTION        E COMPUTER  F INPUT/OUTPUT    STORAGE AC SA SS SP WS ••••••••••••••••••••••APPLICATIONS•••••••••••••••••••••
                           N           I P P M P T T O O M D D D DO YN IT ER OC
                           R           N U A A R E E P P A I A R MM SA ZA RI RH
                           O             N P G I R R S R G S T U IP TL EF VO KE
                           L           A       N M M C E   K A M NU EY  F IR  D
                           M           R C T T T     A A T         T MS O  CI  U
                           N           R R P P E   V N D P   C     E SI F  ET  L                   1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2
                           T             D E E R   I     E   L     R  S     Y  E 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7

STETSON UNIVERSITY         2 IBM1401     N N N N N N N N          3  3  9  2  2 0 0 0 0 N N N 0 0 0 N 0 N N N N N N N N N N N N N N N
                                                                                0 0 0 0       0 0 0   0

TALLAHASSEE JUNIOR COLL    2 IBM  1620 4 Y N N N N N N N 0 0 0 0  6  3  5  4  2 P N N N N N N N X 0 N 0 N N N P N N 0 0 N N 0 P 0 0 N

UNIVERSITY OF FLORIDA      6 IBM360-50 2 Y N Y Y Y N N N 5 5 0 0  4  1 59  3  4 0 0 0 0 0 P 0 0 0 0 0 0 P 0 0 P P P 0 0 0 0 0 0 0 0 P

UNIVERSITY OF MIAMI        5 IBM360-65 1 Y N Y Y N N N N 8 8 0 0  2  2 43  1  3 0 N 0 N P N N N P 0 0 0 P 0 0 0 P P 0 0 N 0 0 0 0 P N

UNIV OF SOUTH FLORIDA      5 IBM1410   1 Y N N Y N N N N 6 1      3  2  0  1  4 0 P P P P P P N N 0 0 0 N 0 0 0 N N 0 0 N 0 0 0 0 P N

UNIVERSITY OF TAMPA        2 IBM1401   1 Y N N N N N N N          2  3  9  2  2 0 N N 0 N N 0 0 0 N 0 0 0 0 0 P N N 0 0 0 0 0 N 0 P N

UNIV OF WEST FLORIDA       2 IBM360-40 2 Y N Y Y N N N N 2 4 0 0  3  3 14  1  2 0 N N N N N 0 0 0 0 P 0 N N 0 0 N N 0 0 P 0 0 P 0 N N

VALENCIA JUNIOR COLLEGE    2 NCR   100 1 Y N N Y N N N N 0 2 0 0  2  3  4  2  2 0 N N 0 N N N P 0 N 0 0 N N 0 0 0 N 0 0 P 0 0 P 0 0 N



•••••••••• GEORGIA
ATLANTA UNIVERSITY         2 IBM1401G  1 Y N N Y N N N N   2      4  3  6  1  2 P P P P P P N P 0 N 0 0 0 N 0 P P P 0 0 N N 0 0 0 N P

CLARK COLLEGE              2 IBM1401-6 5 Y N N Y N N N Y 0 2   0  4  2  4  5  1 N N N N X N N P P P P   P P 0 0 N N 0 0 0 N P N 0 N N
                                                                                                      0

DEKALB COLLEGE             2 HON200    4 Y N Y Y N N N N 4 0 0 1  1  5  2  2  2 P P P P N P P P P P P 0 0 N P P N N 0 0 P N 0 P 0 P P

EMORY UNIVERSITY           2 UNI9300   1 Y N N Y N N N N 0 0 0 0  2  3  5  2  2 0 N N N N N N N N N N 0 N N 0 P N N N 0 0 P P N P 0 N

GEORGIA INST OF TECH       3 IBM360-30 1 Y N Y Y N N N N 5 3      2  2 19  1  2 P P P P N P P 0 P N 0 0 P N N N N N P 0 N N N P N N N

GEORGIA SOUTHERN COLLEGE   3 IBM360-30 4 Y N N N N N N N 0 2 0 0  6  2  0  2  5 N N N N N N N N N N N 0 N N N N N N 0 N N N N N N N N

MEDICAL COLL OF GEORGIA    1           1 N N N N N N N N 4 4 0 0  3  3 30  1  4 0 0 P P P P P P P P P P P P P P P P P P P P P P P P P
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NAME OF INSTITUTION         E COMPUTER  F INPUT/OUTPUT    STORAGE  AC SA SS SP WS ********************APPLICATIONS*********************
                            N           I P P M P T T O O M O D D  DO YN IT ER OC
                            R           N U A A R E E P P A I A R  MM SA ZA RI RH
                            O             M P G I R R S R G S T U  IP TL EF VO KE
                            L           A       M M M C E   K A M  NU EY  F IR  D
                            M           R C T T T     A A T         T MS O  CI  U
                            N           R R P P E   Y N D P   C     E SI F  ET  L                   1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2
                            T             D E F R   I     F   L     R S      Y  E 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7

MOREHOUSE COLLEGE           1 IBM1401   1 Y N N Y N N N N   2       4  3  5  1  1 P N P P N N N P N N P O N N N N N N O O O P P N P P N

MORRIS BROWN COLLEGE        2 IBM1401   1 Y N N Y N N N N   2       4  3  5  1  2 P N N N N P N P O N O O N N O O N N N O N P O P P N P

UNIVERSITY OF GEORGIA       5 IBM360-30 1 Y N Y Y N N Y N 4 3       4  3 60  2  4 O O O O N N N P P N P O P P O O P P   O O O O P O P N
                              IBM7094   2 Y N Y N N N N N10                                                   O O     O O

********** HAWAII

CHAMINADE COLL HONOLULU     1 IBM360-40 4 Y N N Y N N N N           6  3  0  5  5 N N K N N O N N N N N O N N N N N N N O N N N N O N N

KAPIOLANI COMMUNITY COLL    2 IBM360-65 1 Y N Y Y N N N N 511 0 0   3  4 33  4  4 P P P N N N N N N P O   P P     P P N   P P O O   O N
                              IBM1401   2 Y N Y Y N N N N 4 0 0 0                                       O     O O       O         O

UNIVERSITY OF HAWAII        5 IBM360-65 1 Y N Y Y N N N N 511 0 0   3  4 33  5  4 P P P N N N N P N O O   P       P P N   P O O O   O N
                              IBM1401   2 Y N Y Y N N N N 4 0 0 0                                       O   O O O       O         O

********** IDAHO

BOISE STATE COLLEGE         3 IBM1420   2 Y N N Y N N N N   2       3  3  9  3  1 O P P N N N N P N P O O O N O O N N N O P N O N N N N

COLLEGE OF IDAHO            1 UNI1005-1 3 Y N N Y N N N N 0 0 0 0   2  2  3  1  1 N N N N N N N N N N N O O N P N N N O O N N O N O N N

IDAHO STATE UNIVERSITY      3 IBM360-20 1 Y N Y Y N N N N 2 2       3  3 13  1  2 O N P O P P N P P N O O N O P P N N O O N N O O O P N
                              IBM1130   2 Y N N N N N N N   1                           O               O
RICKS COLLEGE               2 NCRCEN100 1 Y N N Y N N N N   2       3  3  3  2  1 O N N P N N N N N N N O O N N O N N N O N N O N O N N

UNIVERSITY OF IDAHO         3 IBM360-20 1 Y N N Y N N N N           2  3 10  1  3 O N N N N N N N N N N O N O O N N N O O N N O O O N N
                              IBM360-40 1 Y N Y Y N N N N 2 3

********** ILLINOIS

AUGUSTANA COLLEGE           2 IBM360-20 1 Y N N Y N N N N 0 2 0 0   3  3  7  1  2 N N N O N N N N O N O O N O N P N N N O P N O N O N N

BLACK HAWK COLLEGE          2 IBM1401   1 Y N N Y N N N N   2       2  3  4  3  2 O N N O N N N N N N O O N O O N N N O O O N O N O N N
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NAME OF INSTITUTION         E COMPUTER   F  INPUT/OUTPUT   STORAGE AC SA SS SP WS *********************APPLICATIONS********************
                            N            I P P M P T T O O M O D D DO YN IT ER OC
                            R            N U A A R E E P P A I A R MM SA ZA RI RH
                            O              N P G I R R S R G S T U IP TL EF VO KE
                            L            A       N M M C E   K A M NU EY  F IR  D
                            M            R C T T T     A A T        T MS O  CI  U
                            N            R R P P E   V N D P   C    E SI F  ET  L                   1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2
                            T              D E E R   I     E   L    R  S     Y  E 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7

BRADLEY UNIVERSITY          3 IBM360-20  1 Y N N N N N N N          4  4  5  2  2 O N N N O P N O N O O O N O O N N N O O O O O O O O N
                              IBM360-40  1 N N N N N N N N   3

CARL SANDBURG COLLEGE       2 IBM1130    1 Y N N Y N N N N   1      3  3  0  1  3 P N N N N N N P N N N O N P O P N N P O P N O N P N N

CHICAGO JR COL-FENGER BR    2 IBM360-40  1 Y N Y Y N N Y N          0  3  0  2  2 P N P P N N N P P P P O P P P O P P O O P P O O O P N

CHICAGO JR COLL-LCOP BR     3 IBM360-40  1 Y N Y Y N N Y N 4 8 0 0  3  1 19  2  3 P N P P N P P N N O P O N N O P P P O O P N O O O P P

CHICAGO JR COL-SE CAMPUS    2 IBM360-40  1 Y N Y Y N N Y N 4 8 0 0  3  3 17  2  3 N N N N N N N P P P P O P N N P N N O O N N O N O N N

CHICAGO STATE COLLEGE       3 IBM1401    1 Y N Y Y N N Y N 2 4 0 0  3  5  5  2  3 O N N N N N N N N N O O P P O P P P N O P P O P O O P

COLLEGE OF LAKE COUNTY      2 IBM1401    1 Y N N Y N N N N   2      3  3  3  1  2 O N N N N N O O O N O O P O O O P P O O O O O O O O O

COLLEGE OF SAINT FRANCIS    1            4 N N N N N N N N          6  5  0  5  5 N N N N N N N N N N N N N N N N N N N N N N N N N N N

CCLUMBIA COLLEGE            1 HON1200    4 Y N Y Y N N N N 5 0 0 0  6  3 12  5  1 N N N N N N N O N N N O O N O O N N O O N N O O O O N

CONCORDIA TEACHERS COLL     2 IBM  1401  1 Y N N Y N N N N   2      3  3  8  1  3 O N N O N N N O N N P O O N O O N N N O P O O O O O N

CONCORDIA THEOL SEMINARY    1 IBM360-20  4 N N N N N N N N          6  1  0  3  5 N N N N N N N N N N N O N N O O N N N O N N N N N N N

DEPAUL UNIVERSITY           3 IBM1401    1 Y N N Y N N N N 4 3      2  3  7  2  3 O N P O N N N O P N O O N O N P N N N O N O O O O P N

EASTERN ILLINOIS UNIV       3 IBM360-50  1 Y N Y Y N Y N N 4 8 0 0  4  3 20  4  4 O N N N P N N O O N N O P P P P P O O O P N O O O P N

ELMHURST COLLEGE            2 IBM360-30  4 Y N N N N N N N          1  2  0  4  5 N N N N N N N N O N N O N N N N N N N O N N O N P P N

GEORGE WILLIAMS COLLEGE     1 IBM        4 Y N N Y N N N N          6  2  0  0  5 P N N N N N N N N N N O O N N N N N N O N N O N N N N

HIGHLAND COMMUNITY COLL     2 HONH-200   1 N N Y Y N N N N 3 1      3  3  3  4  2 O N N O N N N N O N O O N N N P N N N O N N O N O N N
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NAME OF INSTITUTION         E COMPUTER  F INPUT/OUTPUT    STORAGE AC SA SS SP WS ********************APPLICATIONS*********************
                            N           I P P M P T T O O M D D D DO YN IT ER OC
                            R           N U A A R E F P P A I A R MM SA ZA RI RH
                            O             N P G I R R S R G S T U IP TL EF VO KE
                            L           A       N M M C E   K A M NU EY  F IR  D
                            M           R C T T T     A A T        T MS  O CI  U
                            N           R R P P E   V N D P   C    E SI  F ET  L                  1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2
                            T             O E E R   I     E   L    R  S     Y  E 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7

ILLINOIS INST OF TECH       3 UNI1108   2 Y N N N Y N N N 4     2  3  1 32  3  3 N N N N N N N N O N   O O N N N N N N O N N N O   N N
                              UNI1005   2 Y N N N N N N N                                        O   O O O             O       O

ILLINOIS STATE UNIV         4 IBM360-40 1 Y N Y Y N N N N 4 6       3  3 30  4  3 O P P N N P N O P N P O N O N P P P O O O P O O O O N

ILLINOIS WESLEYAN UNIV      2 IBM360-30 4 Y N Y Y N N N N 2 2 0 0  2  3  4  3  4 N N N P P N N N N O N O N N N O N N O O N N N N N N N
                              IBM360-30 4 Y N N Y N N N N 0 4 0 0                                  O   O       O     O O

JOLIET JUNIOR COLLEGE       2 NCRCEN100 1 Y N N Y N N N N 0 2 0 0  3  3  3  2  2 O N N N N N O O O P O O P P O O P P O O O P O O O P P

KANKAKEE COMMUNITY COLL     1 IBM1401   1 Y N N Y N N N N   3       3  3  3  1  1 P N N N N P N P P N N O N P O P N N P O P P P P P N N

KISHWAUKEE COLLEGE          2 IBM1130   1 Y N N Y N N N N 0 1 0 0  5  3  4  4  1 O N N N N N N N N N O O O O O P N N N O P U O O O O N

KNOX COLLEGE                2 IBM1130   1 Y N N Y N N N N   2       4  3  8  1  2 O N N N N N O O O N N O N O O O N N O O O O O N O O N

LAKE FOREST COLLEGE         2 IBM1130   1 Y N N Y N N N N 0 1 0 0  3  3  2  1  1 N N N N N N N N O N N O O N N N N N N O N N O N O O N

LEWIS COLLEGE               2 HON1200   4 Y N Y Y N N N N 4 0 0 0  6  3  9  5  2 P N N N P N N O K N P O N N O N N N N O N N O O O N N

LOYOLA UNIVERSITY           4 IBM1401   1 Y N Y Y N N N N 2 3       2  3 10  5  2 O O O O N N N N O N O O O N O N N N N O N N N O O N N

MONMOUTH COLLEGE            2 IBM1130   4 Y N N Y N N N N           6  3  3  1  2 N N N N N N N N N N N N N N N N N N O O O N N N N N N

MOODY BIBLE INSTITUTE       1 IBM360-20 1 Y N N Y N N N N           2  3 13  1  2 O N N N N N N N O N O O O N N N N N N O O N N N O N N

MORTON COLLEGE              2 IBM360-30 2 Y N Y Y N N N N 2 3       3  3 11  1  2 N N N N N N N O O N O O O O O O P P O O O N P N P P N

NORTH CENTRAL COLLEGE       1 IBM360-20 4 Y N N Y N N N N 0 0 0 0  6  3  0  3  5 N N N N N N N O N N N O N N N O N N O O N N O N O N N

NORTHEASTERN ILL ST COLL    3 IBM360-30 1 Y N Y Y N N N N 2 3 0 0  3  3 16  1  2 P N O N N N N P P O P O N N O O N N O O N P N P P P N

NORTHERN ILLINOIS UNIV      6 IBM360-50 1 Y N Y Y Y N Y N 9 7 0 0  3  3 40  3  4 P N N N N N N P N P P O P N N N P P O O N P O O P P N
                              IBM360-20 1 Y N Y Y N N N N 2                                            O
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NAME OF INSTITUTION       E COMPUTER  F  INPUT/OUTPUT   STORAGE AC SA SS SP WS ********************APPLICATIONS*********************
                          N           I P P M P T T O O M D D D DO YN IT ER OC
                          R           N U A A R E E P P A I A R MM SA ZA RI RH
                          O             M P G I R R S R G S T U IP TL EF VO KE
                          L           A       M M M C E   K A M NU EY  F IR  D
                          M           R C T T T     A A T        T M   U CI  U
                          M           R R P P E   V N D P   C    E SI F  ET  L                    1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2
                          T             D E E R   I     E   L    R  S     Y  F 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7

NORTH PARK COLLEGE        2 IBM1130   1 N N N N N N N N 0 1 0 0  3  2  4  1  1 P N N P N P N P P P P O N N O P N N P O O N O P P P N

NORTHWESTERN UNIVERSITY   3 IBM360-30 1 Y N N Y N N N N 0 2 1 0  4  3 19  5  2 O N N N N N N N O N K O N N N N N N N O N N N N O N N

OLIVET NAZARENE COLLEGE   2 IBM1130   2 Y N N Y N N N N   1      5  3  4  1  1 N N N P P P N N O N N O N N O O N N O O N N O P O P N

PARKLAND COLLEGE          2 IBM360-25 1 Y N Y Y N N N N 2 2 0 0  3  1  4  1  2 O N P O N N N O N N O O N P O O N N O O O N O O O O N

PRINCIPIA COLLEGE         1 IBM1130   1 Y N N N N N N N   1      5  3  4  1  2 P N P P N P P N N N P O N P P N N N N O P P O P P P N

ROOSEVELT UNIVERSITY      3 IBM1401   1 Y N N Y N N N N          2  3  6  1  1 P N P O N N N N N N N N N N N N N N N N N N N N N N N

ROSARY COLLEGE            2 IBM1401   5 Y N N N N N N N   2      1  2  1  0  5 N N N N N N N N N N N O O N N N N N O N N N O N N N N

SAINT XAVIER COLLEGE      1           4 N N N N N N N N          6  5  0  5  5 N N N N N N N N N N N N N N N N N N N N N N N N N N N

SAUK VALLEY COLLEGE       2 IBM1401   1 Y N N Y N N N N   2      3  3  5  4  1 O N N N N N N P N N N O N P P P N N O O P N O O N P P

SOUTHERN ILLINOIS UNIV    6 IBM7044   1 N N Y N N N N N10 2      3  1 67  3  4 O P O O N N N N O N O O N O P P P P O O P P O O O O N
                            IBM1401   1 Y N Y Y N N Y N 4                      O   O O         O   O O   O         O O     O O O O

SO ILL UNIV-EDWARDSVILLE  4 IBM1401   1 Y Y Y Y N N N N 5 1      3  3  0  1  4 O P N N P N N N P N N O P N P P P P N O N N N P N N N
                            IBM1130   1 N N N N N N N N 0 1

THORNTON JUNIOR COLLEGE   2 IBM360-40 1 Y N Y Y N N N N 2 4      3  3  7  1  2 N N N O N N N O O O P O N O N N N N O O N N O N N N N

TRITON COLLEGE            3 IBM360-30 1 Y N Y Y N Y N N 2 3      1  5  7  1  2 O P O P N N P O O N N O O O O O O O P O O P O P O P P

UNIVERSITY OF CHICAGO     4 IBM1401   1 Y N Y Y N N N N 4 0 0 0  3  3 28  5  4 P N N O N N N N N N P O N N P P P P N O P O O N P O N

U OF ILL-MED CNTR CAMPUS  2 IBM360-40 1 Y N Y Y N N N N 4 2      4  1 20  5  1 O N N O N P N O O O O O P O P P P P O O P O O O O O O

U OF ILL-CHICAGO CIR CAM  5 IBM360-40 1 Y N Y Y N N N N 4 5 0 0  4  1 30  2  3 O O P N N P P   O N O O P O P P P P P O P O O O O O N
                            IBM360-50 1 Y N Y Y N N N N 4 9 0 0                O             O                               O
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NAME OF INSTITUTION         E COMPUTER  F  INPUT/OUTPUT   STORAGE AC SA SS SP WS ********************APPLICATIONS********************
                            N           I P P M P T T O O M D D D DO YN IT ER OC
                            R           N U A A R E E P P A I A R MM SA ZA RI RM
                            O             M P G I R R S R G S T U IP TL EF VO KE
                            L           A       N M M C E   K A M NU EY  F IR  D
                            M           R C T T T     A A T        T MS O  CI  U
                            N           R R P P E   V N D P   C    E SI F  ET  L                   1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2
                            T             D E F R   I     E   L    R S      Y  E 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7

UNIVERSITY OF ILLINOIS      6 IBM360-50 2 Y N Y Y N N N N 816 0 0  4  1134  3  4 O O N N O P P O O N O O P O O O P P O O O O O O N O O
                              IBM360-20 1 Y N N Y N N N N 0 0 0 0                                O                       O

WAUBONSEE COMMUNITY COLL    2 IBM  1401 1 Y N N Y N N N N 0 2 0 0  3  3  4  2  1 O O O O N N O O N O O O N N O O N N O O O N O N O O N

WESTERN ILLINOIS UNIV       4 IBM360-30 1 Y N Y Y N N N N12 4 0 0  4  3 16  2  3 O N N N O N N P P P O O N O O P N N O O P N O P O P P

WHEATON COLLEGE             2 IBM360-20 1 Y N N N N N N N          2  1  6  1  1 O N N N N O N O N N O O N N P N N N N O N P N N O O N


********** INDIANA

ANDERSON COLLEGE            2 IBM1620   3 Y Y N N N N N N   2      3  3  6  2  1 N N N N N N N N N N N O P P N O P P N O N N O N O N N

BALL STATE UNIVERSITY       5 IBM360-40 1 Y N Y Y N N Y N 2 9 0 0  3  3 30  1  3 O N N P N N N P N N N O P O O P P P P O P O N N O N N
                              IBM360-20 1 Y N N N N N N N 0 0 0 0                O                     O

BUTLER UNIVERSITY           2 IBM360-30 4 N N N N N N N N 5 3      6  0  0  0  0 N N N N N N N N N N N O N O N N N N O O P N N N N N N

DEPAUW UNIVERSITY           2 IBM1401   1 Y N N Y N N N N   3      3  3  8  1  1 P N P O N P N P O N N O N P O O N N O O P O O P O O N

EARLHAM COLLEGE             2 IBM1130   1 Y N N Y N N N N   2      3  3  3  2  1 O N N P N N N O N N N O N N P O N N N O N O O P O N N

EVANSVILLE COLLEGE          3 IBM360-25 1 Y N Y Y N N N N 2 2 0 0  3  3  6  3  2 P P P N P   N N O N N O N O P O P P       P   N P P N
                              IBM1620   2 Y N N Y N N N N 0 0 0 0                          O     O     O             O O O   O

FRANKLIN COLLEGE            1 BURTC500  1 Y N N N N N N N 0 0 0 0  3  4  3  3  2 P N N O N P N P P N P O O P P P P P O O P P O P P O P

GOSHEN COLLEGE              2 BUR   300 4 N Y Y Y N N N N 4 1      6  1  0  4  5 N N N N N N N N O N N O N O N O N N P O N N O N O N N

GRACE COLLEGE               1           4 N Y N N N N N N          1  1  0  4  5 N N N N N N N N O N N O N O N O N N N O N N O N O N N

HANOVER COLLEGE             2 IBM360-20 4 Y N N Y N N N N 0 1 0 0  6  3  0  3  5 P N N P N N N N O N P O N O P N N N O O O N O P O P N

HERRON SCHOOL OF ART        1 IBM360-50 2 Y N Y Y N N N N 6 3      4  3 88  2  4 O N N N N O N N N N N O O N N O P P N O N N N O N N N
                              IBM360-30 2 Y N Y Y N N N N 5 4                    O         O                   O       O
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NAME OF INSTITUTION         E COMPUTER   F INPUT/OUTPUT    STORAGE AC SA SS SP WS ********************APPLICATIONS**********************
                            N            I P P M P T T O O M D D D DO YN IT ER OC
                            R            N U A A R E E P P A I A R MM SA ZA RI RH
                            O              M P G I R R S R G S T U IP TL EF VO KE
                            L            A       M M M C E   K A M NU EY  F IR  D
                            M            R C T T T     A A T        T MS O  CI  U
                            N            R R P P E   V N D P   C    E SI F  ET  L                   1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2
                            T              D E E R   I     E   L    R  S     Y  E 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7

HUNTINGTON COLLEGE          1 IBM360-20  4 N N N N N N N N          6  3 13  4  4 N N N N N N N N O N N O O N O N N N O O N N O N O N N

INDIANA CENTRAL COLLEGE     2 IBM1130    1 Y N N Y N N N N   1      3  3  3  2  1 O N N O N N N O O N O O N N P O N N P O P O O O O O O

INDIANA INST OF TECH        1 IBM1130    1 Y N N Y N N N N   1      5  3  0  5  1 P N N N N N N N N N O O N O N N N N O O P N O N P O N

INDIANA STATE UNIVERSITY    5 IBM360-30  1 Y N Y Y N N Y N 3 4 0 0  3  2 28  3  3 O P P N N P N P P O O O P O O O P P O O P O O O P O P

INDIANA UNIVERSITY          6 IBM360-50  2 Y N Y Y N Y N N 8 2      4  3 79  1  4 O O O N P P N N N N O O P P O O P O N O P P O O O O P
                              IBM360-30  2 Y N Y Y N N N N 4 4                    O O O               O O

IND UNIV-FT WAYNE CAMPUS    2 IBM360-20  5 Y N N Y N N N N          6  3  6  4  4 O N N O N N N N N N P O N N P P P P N P P P O P P P P
                              IBM1620    2 Y N N N N N N N   1                                          O

MANCHESTER COLLEGE          2 BURB300    5 N Y N Y N N N N 4 1 0 1  6  3  3  3  5 O N N N N N N N O N N O N O N N N N O O N N O N O N N
                              IBM1130    2 Y N N N N N N N 0 1 0 0                                      O

MARIAN COLLEGE              2 HON1200    4 Y N Y Y N N N N 5 3      6  3 13  1  2 N N N N N N N N N N O O N N O N O O O O N N N N O N N

MARION COLLEGE              1 BURB-300   4 N Y N Y N N N N 4 2      6  3  0  4  5 N N N N N P N N O N O O N O O N N N N O O P O N O N N

PURDUE EVINERSITY           6 IBM360-40  1 Y N Y Y Y Y N N 4 8 1 0  4  3 68  3  4 O O O O O O O O O   O O   O O O P P O O O O O   O O O
                              CDC6500      Y Y Y Y Y Y N N 4 6 0 0                              O O O O O O                     O

PURDUE UNIV-CALUMET CNTR    2 IBM1620    2 Y N N Y N N N N   1      4  3  4  1  2 O N O N N N N N O N O O N O O P P P P P P P N N N N N
                              IBM360-20  1 Y N Y Y N N N N

PURDUE UNIV-FT WAYNE CTR    2 IBM1620    2 Y N N Y N N N N   1      3  4  7  2  2 O N N   N N N N O N N O N P N N P P N P N N N N N P N
                              IBM360-20  1 Y N N Y N N N N                        O     O

PURDUE UNIV-INDIANAPOLIS    2 IBM1620    2 Y N N Y N N N N   1      3  4  5  1  2 O N N N N N N N O N P O N P O N N N N N N N O N N N N
                              IBM360-20  1 Y N N Y N N N N                                                    O

PURDUE U-NO CNTRL CAMPUS    2 IBM360-20  1 Y N N N Y N N N          4  3  4  2  2 O N P O N N P P P N P O P P O P O O N P P P P P N O N
                              CDC6500    2 N Y Y Y Y Y Y N 4 6                    O                     O     O   O O               O

SAINT FRANCIS COLLEGE       2 IBM1130    1 Y N N N N N N N   1      2  3  3  1  2 O N P P N N N N P N N O O N P O N N P O P P O N P P N

ST JOS COLL-RENSSELAER      2 IBM1130    1 Y Y N Y N N N N 0 1 0 0  3  3  4  2  2 O O N N O N N N O N N O O N N N N N N O P O O O O O N
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NAME OF INSTITUTION      E COMPUTER  F  INPUT/OUTPUT   STORAGE AC SA SS SP WS ****************************APPLICATIONS*************
                         N           I P P M P T T O O M D D D DO YN IT ER OC
                         R           N U A A R E E P P A I A R MM SA ZA RI RH
                         O             M P G I R R S R G S T U IP TL EF VO KE
                         L           A       M M M C E   K A M MU EY  F IR  D
                         M           R C T T T     A A T        T MS O  CI  U
                         N           R R P P E   V N D P   C    E SI F  ET  L                   1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2
                         T             D E E R   I     E   L    R  S     Y  E 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7

ST JOSEPHS COLL-CALUMET  2           4 N N N N N N N N          6  3  0  5  5 N N N N N N N N N N N O N N O P N N N O N N O N O N N

ST MARY-OF-THE-WOODS COL 1 IBM       4 Y N N Y N N N N          6  3  0  4  5 N N N N N N N N N N N O N N O O N N O O O N N N O O N

ST MARYS COLLEGE         2 IBM  1401 4 Y N N Y N N N N   3      2  2  0  1  3 P N N N N N N P P N O O N N N P N N N O N N P N P N N
                           REM  1107 4 N N Y N N N N N14     1                                    O O             O

TAYLOR UNIVERSITY        2 IBM1130   1 Y N N Y N N N N   1      3  3  3  4  3 O N N O P P N N   N P   N     N N N P   P P   N P P N
                           BUR       4 Y N Y Y N N N N 3 2                                    O     O   O O         O     O

TRI-STATE COLLEGE        2 IBM1130   1 Y N N Y N N N N   1      3  3 10  1  2 P N N N N N N O N N N O N N P O N N N O N O O N O N N
                           IBM1620   2 Y N N N N N N N

UNIVERSITY OF NOTRE DAME 3 IBM1401   1 Y N N Y Y N N N 0 3 0 0  4  4  0  4  0 O O N O O O N O O N O O P O O N P P     O O O P   O O
                           UNI1107   2 Y N Y Y Y N N N14 0 0 1                                      O             O O         O

VALPARAISO UNIVERSITY    2 IBM360-20 1 Y N Y Y N N N N 4        4  3  3  1  1 O N O O N N N N O N N O N N N N N N N O N N O N O O N

WABASH COLLEGE           1 IBM1620   3 Y N N N N N N N          3  3  3  4  2 N N N N N N N N N N N O O N O N N N N O O O O N O O N


********* IOWA

BRIAR CLIFF COLLEGE      2 HON1620   4 Y N Y Y N N N N 5        1  1  0  5  5 N N N N N N N N N N N O N N O O N N O O N N N N O N N

COE COLLEGE              1 IBM1130   2 Y N N Y N N N N 0 1 0 0  3  3  6  2  2 O N N O N N N N O N O O O P O O N N O O P O O P O O N

CORNELL COLLEGE          1 IBM1130-2 2 Y N N N N N N N 0 1 0 0  3  3  3  1  2 N N N N N N N P O O N O O N O O N N P O O N P P O O P

DRAKE UNIVERSITY         3 HON1200   1 Y N Y Y N N N N 4 1      3  3 14  1  3 O P P P P P P O P N P O P O O O P P O O O O O P O O P

GRINNELL COLLEGE         2           1 Y N N N Y N N N          3  2  6  1  2 O N N N N N N N N N N O N N O O N N N N N P N N P N N

IOWA CENTRAL COMM COLL   2           4 N N N N N N N N          6  5  0  5  5 N N N N N N N N N N N O N N O O O N O O N N N N N N N

IOWA STATE UNIVERSITY    5 IBM360-40 2 Y N Y Y N N N N 6 5 0 0  4  3 59  4  4 O N O O N O N O O N O O P O O N P P O O N O O O O N N
                           IBM1401   1 Y N N N N N N N 0 0 0 0                      O
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NAME OF INSTITUTION        E COMPUTER   F INPUT/OUTPUT    STORAGE AC SA SS SP WS ••••••••••••••••••••APPLICATIONS•••••••••••••••••••••
                           N            I P P M P T T O O M D D D DO YN IT ER OC
                           R            N U A A R E E P P A I A R MM SA ZA RI RH
                           O              N P G I R R S R G S T U IP TL EF VO KE
                           L            A       N M M C E   K A M NU EY  F IR  D
                           M            R C T T T     A A T        T MS O  CI  U
                           N            R R P P E   V N D P   C   E  SI F  ET  L                   1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2
                           T              D E E R   I     E   L    R  S     Y  E 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7

IOWA WESLEYAN COLLEGE      1            4 N N N N N N N N          6  3  0  5  5 N N N N N N N N N N N O O N O O N N N O N N N N O N N

LUTHER COLLEGE             2 IBM1130    1 Y N N Y N N N N   1      3  3  2  3  2 O N P O N N N N O N N O N N P P N N O O N P N O P P N

MARYCREST COLLEGE          2            4 N N N N N N N N          6  5  0  5  5 N N N N N N N N N N N N N N N N N N N N N N N N N N N

MORNINGSIDE COLLEGE        2 IBM1160    2 N N N N N N N N          5  3  4  1  1 P N N O N N N N N N N O N N [illegible] N N N O O N N N N O N N

NORTH IOWA COMM COLLEGE    2            4 Y N Y N N N N N          6  3  0  5  5 O N N O N N N N O N O O O O O O N N O O O P O O O O O

NORTHWESTERN COLLEGE       1 HON        4 N N N N N N N N          6  4  0  5  5 N N N N N N N N N N O O N N N P N N O O P N N N O P N

PARSONS COLLEGE            2 IBM1460    1 Y N N Y N N N N   3      3  3  7  1  2 O N O P O N N O O P O O N P O P N N O O P O O O O P N

UNIVERSITY OF IOWA         6 IBM360-40  1 Y N Y Y N N N N 4 1 0 0  2  3  6  2  4 O O O N O N P N O N P O P O O O P P P O P O O P O N N
                             IBM360-30  1 Y N Y Y N N N N 4 0 0 0                O O O           O     O   O           O   O O   O
UNIV OF NOTHERN IOWA       3 IBM360-40  1 Y N Y Y N N N N 5 5        3  3 10  1  3 O P P N N N N P O O P O N O P P N N O O O O O O O O P

UPPER IOWA UNIVERSITY      2 IBM1620    2 Y N N N N N N N 0        3  1 10  4  2 O N P O P P P P O P O O P P O P N N O O P P P P O N N

WALDORF COLLEGE            1            4 N N N N N N N N          6  5  0  5  5 N N N N N N N N N N N O O N O N N N N O O N N N O N N


•••••••••• KANSAS

BETHANY COLLEGE            1 IBM1401    5 Y N N Y N N N N 1 2        6  3  4  4  1 N N N O N N N N N N N O N N P P N N N O N N O N O P N

BETHEL COLLEGE             1 IBM  1401  5 Y N Y Y N N N N 1 2 0 0  6  3  0  5  5 N N N N N N N N N N N O N N P P P N N O N N O N O N N

FORT HAYS KANSAS ST COLL   3 IBM  1401  1 Y N N Y N N N N   2      3  2  0  1  1 O N N N N N N P O N N O O O N N O N O O O N O N O O N

FRIENDS UNIVERSITY         2            2 N N N N N N N N          4  5  3  5  1 O N N O N N N N N N N N N N O P N N N O N N N N N N N
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NAME OF INSTITUTION      E COMPUTER  F  INPUT/OUTPUT   STORAGE A     SS SP WS ••••••••••••••••••••APPLICATIONS•••••••••••••••••••••
                         N           I P P N P T T O O M D D D DO YN IT ER OC
                         R           N U A A R E E P P A I A R MM SA  A RI RH
                         O             N P G I R R S R G S T U IP TL EF VO KE
                         L           A       N N N C E   K A N NU EY F  R   D
                         M           R C T T T     A A T        T MS O  CI  V
                         N           R R P P E   V N D P   C    E SI F  ET  L                   1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2
                         T             D E E R   1     E   L    R  S     Y  E 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7

KANSAS ST COLL PITTSBURG 3 IBM1401   1 Y N N Y N N N N   2      3  3 10  3  3 O N N N N N N P O N O O N O N P P P O O P N O O O N N

KANSAS ST TEACHERS COLL  3 IBM1401   1 Y N Y Y N N N N 4 2 0 0  3  3  7  1  1 P N N N N N N P P P P   N O O N N N O O P P O P O O N
                                                                                                    O

KANSAS STATE UNIVERSITY  4 IBM360-30 2 Y N Y Y N N N N 4 2 0 0  4  3 19  4  3 P N N N N N N   O O O O P O P P P P O O N O O N O N N
                           IBM360-50 1 7 N Y Y N N N N 2 9 0 0                              O

KANSAS WESLEYAN UNIV     1 IBM1401   5 Y N N Y N N N N 1 2      6  1  0  1  1 O N N N P P N N P P N O N P P P N N O O O N P N P P N

MARYMOUNT COLLEGE        1 IBM1401-G 4 Y N N Y N N N N          6  3 10  3  3 O N N N N N N N N N N O N N N O N N O O N N O N N N N

MCPHERSON COLLEGE        1 IBM1401   5 Y N N Y N N N N 1 2 0 0  6  3  2  4  1 P N N P N N N N N N N O N N P N N N O O N N O N O N N

MT ST SCHOLASTICA COLL   1           4 N N N N N N N N          6  5  0  5  5 N N N N N N N N N N N O N N N N N N N N N N N N N N N
                                                                                                    O

SACRED HEART COLLEGE     1 IBM1401   4 Y N N Y N N N N          1  4  0  5  5 N N N N N N N N N N N O N N O N N N N O N N O N O N N

STERLING COLLEGE         1 IBM1401   5 Y N N N N N N N 1 2      6  3  2  1  1 N N N N N N N N N N N O N P O N N N O O N N N N O N N

UNIVERSITY OF KANSAS     5 GE    635 1 Y N Y Y N N N N 8 2 0 1  3  1 64  3  3 O N N N N N N P O N O O P N P P P P O O P O O P N P N
                           IBM  1401 1 Y N Y Y N N N N 4 0 0 0                O               O   O O             O O   O O

WASHBURN UNIV OF TOPEKA  2 IBM1130   2 Y N N Y N N N N   1      5  1 13  3  3 N N N N N P N N N N N O N O O N N N N O O O O O O O O
                           IBM1620   2 Y N N N N N N N                                              O   O O         O O O O O O O

WICHITA STATE UNIVERSITY 4 IBM1620   1 Y N N N N N N N 0 2 0 0  3  3 16  3  3 O P P O O O N P O N P O O O N N N N O O P O P O O P N


•••••••••• KENTUCKY

BELLARMINE-URSULINE COLL 2 IBM360-30 4 Y N Y Y N N N N 2 2 0    6  3  0  4  5 N N N N N N N N O N N O N P P N N N P O N P P P O P N

BEREA COLLEGE            2 IBM1130   2 Y N N Y N N N N 0 1 0 0  3  3  9  4  1 O O N N N N N N O N O O N N P P N N P O P O O N P P N

EASTERN KENTUCKY UNIV    3 HON   200 1 Y N Y Y N N N N 4        2  3  9  3  1 P P P P P N N P P P P O N O O P N N O O N P P N O P N
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NAME OF INSTITUTION         E COMPUTER   F  INPUT/OUTPUT     STORAGE AC SA SS SP WS ••••••••••••••••••••••APPLICATIONS••••••••••••••••••••••
                            M            I P P M P T T O O M O O O DO YN IT ER OC
                            R            N U A A R E E P P A I A R MM SA ZA RI RH
                            O              N P G I R R S R G S T U IP TL EF VO KE
                            L            A         N M M C E   X A M NU EY  F IR  D
                            M            R C T T T     A A T       T MS O  CI  U
                            N            R R P P F   V N D P   C   E SI F  ET  L                     1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2
                            Y              D E F R   I   E   L     R S      Y  E 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7

MOREHEAD ST UNIVERSITY      3 HONW-200   1 Y N Y Y N N N N 5         3  3 13  5  1 O P P O N P N N N N N O N O N P N N O O P P O N O N N

MURRAY STATE UNIVERSITY     3 IBM360-20  1 Y N N Y N N N N 0 0 0 0   1  3  7  2  2 P N P P N N N N N O O O N O N P P P     N O O N O N N
                              IBM360-40  1 Y N Y Y N N N N 2 4 0 0                                                     O O         O

THOMAS MORE COLLEGE         2 IBM1130    1 Y N N Y N N N N 0 2 0 0   3  3  6  1  2 P N N N N N N N O N O O N N N P N N N O N N O P O O N

TRANSYLVANIA COLLEGE        1 IBM1130    2 Y N N Y N N N N           3  3  4  1  1 P N N P P N N N N N N O N P N N N N N O N N N N O P N

UNIVERSITY OF KENTUCKY      5 IBM360-65  2 N N N N Y Y Y N 6 8       3  5  0  5  3 O P O P O N N O O N N O N O O P N N O O P O O O O N N

UNIVERSITY OF LOUISVILLE    3 IBM360-30  1 Y N Y Y N N N N 4 2 0 0   3  3 17  1  4 O P N O P N P P P P P O P N P P P P O O P P P P O O P

WESTERN KENTUCKY UNIV       4 IBM1401    1 Y N N Y N N N N   3       3  3 16  1  2 O N N N N N N N N N N O N N O N N N N O N O O N O O O


••••••••• LOUISIANA

CENTENARY COLLEGE OF LA     2 IBM1130    2 Y N N Y N N N N 0 1 0 0   3  3  4  1  5 N N N N N N N O P N P O N N O N N N N O N N O P N O P

FRANCS T NICHOLLS ST COL    2 IBM1130    1 Y N N Y N N N N 0 1 0 0   3  1  5  1  2 O N P O P P N O P O P O P N O N N N O O P O O P O O N

LOUISIANA POLYTECH INST     3 IBM360-30  1 Y N Y Y N N Y N 2 3 0 0   3  3 10  3  2 O N P O P N N N P N N O N P O P N N O O N N O P O O N

LOUISIANA ST UNIVERSITY     5 IBM360-30  1 Y N Y Y N N Y N 4 4 0 0   2  1 22  2  3 O N O N N N N P O N P O P N O P P P P O P N O P O N N

LA ST UNIV-NEW ORLEANS      4 IBM1401    1 Y N Y Y N N N N 4 1       2  1 10  2  2 N N O O O P N N N N O O N O P N N N N O N N O O O N N

LOYOLA UNIVERSITY           2 IBM        2 Y N N N N N N N 0 2 0 0   5  1  0  1  0 P N N P N N N N N N N O P P P P P P N O P P P P O P N

MCNEESE STATE COLLEGE       3 IBM360-20  1 N N N N N N N N 0 0 0 0   1  2  5  4  2 O N O O N P N N O N N O N N P N N N P O N O O O O P N

NORTHEAST LA STATE COLL     3 IBM1401    1 Y N N Y N N N N   3       4  3  5  1  1 O N O O N N N N O N N O O O N N N N O O O N O O O N N
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NAME OF INSTITUTION      E COMPUTER  F  INPUT/OUTPUT   STORAGE  AC SA SS SP WS ********************APPLICATIONS********************
                         N           I P P M P T T O O M D D D  DO YN IT EC OC
                         R           N U A A R E E P P A I A R  MM SA ZA RI RH
                         O             M P G I R R S R G S T U  IP TL EF YO KE
                         L           A       N M M C E   K A M  NU EY  F IR  D
                         M           R G T T T     A A T        T  MS O  CI  U
                         N           R R P P E   V N D P   C    E  SI F  ET L                   1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2
                         T             D E E R   I     E   L    R  S      Y E 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7

N W STATE COLLEGE OF LA  3 IBM360-30 1 Y N Y Y N N N N 2 2 0 0  3  3   0  1 3 O N N O N P N O O N O O P O N O P P P O N N O O O O P

SO UNIV-SHREVEPT BOSSIER 1 IBM360-30 1 N N N N N N N N          5  3   0  5 5 N N N N N N N N N N N N N N N N N N N N N N N N N N N

TULANE UNIVERSITY        3 IBM7044   2 Y N Y Y N N N N 5 1 0 0  3  3  11  1 1 O N N N N N N P N N     N N   N N N N   N N P P P P N
                           IBM1401   1 Y N N Y N N N N 2 0 0 0                                    O O     O         O

UNIV OF SOUTHWESTERN LA  4 RCA70145  1 Y N Y Y N N N N 6 3 0 0  3  3  13  4 2 O P P P O N P O   O O O O O O O P P O O N P O O O O O
                           IBM360-20 1 Y N N Y N N N N 0 0 0 0                O             O O     O   O

XAVIER UNIVERSITY        2 IBM1130   1 Y N N Y N N N N   1      3  3   6  3 2 P N N N N N N N N N N O N N O N N N N O N N O N O N N


********** MAINE

BOWDOIN COLLEGE          1 IBM1620   1 Y N N Y N N N N   2      3  3   3  1 1 O N N O N N N O N N O O P N O O P P N O O O N N O N N
                           DECPDP-10 2 Y N Y Y Y N N N 1 1   1

UNIVERSITY OF MAINE      4 IBM360-30 1 Y N Y Y N N N N 2 3      3  3  25  3 3 P N N N N N N P O N N O P O P N N N N O P N P O O N N


********** MARYLAND

ANNE ARUNDEL COMM COLL   2 IBM1401   1 N N N N N N N N 2 2      3  3   4  2 2 O P P N N N N N N N N O P N O P P P O O P P O P O O P

CATONSVILLE COMM COLLEGE 2 IBM360-20 1 Y N Y N N N N N 4        3  2   4  2 2 O N N O N N N N O O O O N N O P N N N O N N O O O P N

COLL OF NOTRE DAME OF MD 1 UNI1108   4 Y N Y Y N N N N 8 0 0 6  6  1  89  4 4 N N N N N N N P P P O O O N P P P P O O O N O P O O P

COMM COLL OF BALTIMORE   2 UNI  9300 1 Y N Y Y N N N N 4 2 0 0  2  3   5  2 1 O N N N N N N N N N N O N N O O N N O O O N O O O N N
                           IBM  1620 2 N N N N N N N N 0 0 0 0

ESSEX COMMUNITY COLLEGE  2 IBM360-20 5 Y N N Y N N N N 4        6  5   0  4 5 O N N N N N N N O N N N N N N N N N O O N N N N O N N

FREDERICK COMM COLLEGE   2 IBM360-30 4 Y N N Y N N N N 2 6 0 0  6  1  36  4 3 P N N P N N N P P P O O N N P N N N O O O P P P O P N

FROSTBURG STATE COLLEGE  2 HON1200   1 Y N Y Y Y N N N 6 2 0 0  3  3  26  1 4 O N N O N N N O O N O O O N O O O O O O O O O O O O N
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NAME OF INSTITUTION        E COMPUTER    F INPUT/OUTPUT    STORAGE  AC SA SS SP WS *********************APPLICATIONS*********************
                           N             I P P M P T T O O  M D D D DO YN IT ER OC
                           R             N U A A R E E P P  A I A R MM SA ZA RI RH
                           O               N P G I R R S R  G S T U IP TL EF VO KE
                           L             A       N M M C E    K A M NU EY  F IR  D
                           M             R C T T T     A A  T         T MS O  CI  U                   1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2
                           N             R R P P E   V N D  P   C     E SI F  ET  L
                           T               D E E R   I      E   I     R  S     Y  E 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7

GOUCHER COLLEGE            2 IBM  1130   1 Y N N Y N N N N  0 1 0 0  3  3  7  3  1 0 N N N N N N N N N N N N N N N N N N O N N N N O O N

JOHNS HOPKINS UNIVERSITY   3 IBM1401     1 Y N N Y Y N N N  4 0 0 0  3  1 24  1  3 0 N N N O N N N O N N O N N O O N N N O N O P N P O N
                             IBM7094     2 Y N Y Y N N N N 12 1 0 0
MONTGOMERY COL-ROCKVILLE   3 IBM360-30   1 Y N Y N N N N N  4 3      3  3 14  2  3 0 N P N N P P P P P P O O O O P P P O O P N O P O N N

MONTGOMERY COL-TAKOMA PK   2 IBM360-30   1 Y N Y N N N N N  4 3      3  3 14  2  3 0 N P N N P P P P P P O O O O P P P O O P N O P O N N

MORGAN STATE COLLEGE       2 HON   200   1 Y N N Y Y N N N           3  3 23  3  4 0 0 N 0 N 0 N N   0 0 0 0 N 0 0 0 N 0 0 0 0 0 0 0 0 0
                             HON  1200   1 Y N Y Y Y N N N  6 3                    0 0   0         0 0 0 0 0   0 0 0   0 0 0 0 0   0
SALISBURY STATE COLLEGE    2 HONH200     1 Y N N Y Y N N N           3  3  0  3  4 0 N N N N P N P P N P 0 0 N P 0 0 N N 0 P P 0 P 0 P N
                             HONH1200    1 Y N Y Y Y N N N  6 4                    0                     0 0     0 0     0     0   0
TOWSON STATE COLLEGE       3 HON1200     1 Y N Y Y N N N N  6 2      3  3 10  3  4 0 N N N P N 0 0 0 N P 0 P P P 0 P P P 0 P P 0 P 0 0 P

U S NAVAL ACADEMY          2 IBM360-30   1 Y Y N Y N N N N    3      2  3 26  2  2 0 N 0 N N N N 0 N N 0 0 N N 0 0 N N 0 0 0 0 0 N 0 0 0

UNIVERSITY OF MARYLAND     6 HON1200     1 Y N Y Y N N Y Y  7 2      4  1 31  1  4 0 P 0 N 0 N N   0 N   0 P 0 0 P P P 0 0 0 0 0 0 N 0 0
                             IBM360-20   1 Y N Y Y N N Y Y  2                          0   0     0 0   0 0     0         0 0 0 0
UNIV OF MD-BALTIMORE       2 IBM360-44   1 Y N Y Y N N N N  4 5 0 0  3  3 34  1  3 N N N P N N N N N N 0 0 0 N N N N N P 0 P N N P P N N
                             UNI9300     1 Y N Y Y N N N N  3 0 0 0
WASHINGTON COLLEGE         1 IBM1130     1 Y N N N N N N N  0 1 0 0  3  3  4  1  3 N N N N N N N N N N N 0 N N 0 0 N N P P P N 0 N P N N

WESTERN MARYLAND COLLEGE   2 IBM1800     1 Y N N Y N N N N  0 3 0 0  3  3 12  1  2 0 N P N P P P P 0 N P 0 P P P P P P N 0 P 0 0 P 0 0 F



********** MASSACHUSETTS
AMHERST COLLEGE            2 IBM1401     1 Y N Y Y N N N N  2 3 0 0  3  3 14  2  3 0 N N N N P N N N N 0 0 N 0 P P P P P 0 P 0 0 P 0 0 N

ASSUMPTION COLLEGE         1 RCASPEC70   5 Y N Y Y N N N N  6 8 0 1  6  3 27  4  5 P P P P N P N 0 0 N 0 0 0 P 0 P P P 0 0 ? P P 0 0 P P

ATLANTIC UNION COLLEGE     1 IBM1130     1 Y N N N N N N N    1      3  3  4  1  2 P N N N N N N N 0 P P 0 N N P N N N N 0 N N 0 N 0 N N
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NAME OF INSTITUTION         E COMPUTER  F INPUT/OUTPUT    STORAGE AC SA SS SP HS ********************APPLICATIONS*********************
                            N           I P P M P T T O O M D D D DO YN IT ER OC
                            R           N U A A R E E P P A I A R MM SA ZA RI RH
                            O             N P G I R R S R G S T U IP TL EF VO KE
                            L           A       N M M C E   K A M NU EY  F IR  D
                            M           R C T T T     A A T        T MS O  CI  U
                            N           R R P P E   V N D P   C    E SI F  ET  L                   1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2
                            T             D E E R   I     E   L    R S      Y  E 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7

BABSON INST OF BUS ADMIN    1 IBM360-30 4 N N N N N N N N 4 2      6  2  0  4  2 N N N N N N N O N N P O N O O O N N O O O N O O O O N

BECKER JUNIOR COLLEGE       1 RCA       4 Y Y N N N N N N          6  3  0  1  5 N N N N N N N O N N O O O N O O N P O O O N N N N N N

BOSTON COLLEGE              4 IBM360-40 1 Y N Y Y N N N N 6 7      3  2  0  5  4 P P P N P P N P P N O O P O P P P P N O O P P P O P P

BOSTON UNIVERSITY           6 IBM360-40 1 Y N Y Y Y N N N 4 4      4  3 31  1  3 O N O O N N N N P N O O N N P N N N N O N O O N N N N

BRANDEIS UNIVERSITY         2 IBM1130   1 N N N N N N N N          5  3  7  2  1 O P N N N N N N N N N P P N N N P P N P O N P N P P N

CLARK UNIVERSITY            2 RCASPEC70 5 N N N N N N N N          6  3  0  4  5   N     N P N N N O N O N N N P N N N N P N O P O N N
                              IBM1620   2 Y N N N N N N N                        0   0 0                                     0

COL OUR LADY-OF-THE-ELMS    1           4 N N N N N N N N          6  2  0  5  5 P N P N P P P O N O O O O N O O P P P O O P P P O O O

COLL OF THE HOLY CROSS      2 IBM360-25 1 N N N N N N N N 0 2 0 0  3  3 10  1  3 O N N N O N N N N N O O N N N O N N O O O O O O O O O

CURRY COLLEGE               1 IBM360-20 4 Y N N Y N N N N 0 0 0 0  6  2  0  5  5 N N N N N N N N N N N N N N O N N N O O O N N N N N N

EMERSON COLLEGE             2 RCASPEC70 4 N N N N N N N N 6 6   1  6  4  0  4  5 P N N N N N N N N N P   O P P P P N P   N P P P P P N
                                                                                                       0               0

FISHER JUNIOR COLLEGE       1           4 N N N N N N N N          1  2  0  5  5 N N N N N N N O N O O O N N O O N N O O O N N N N N N

LASELL JUNIOR COLLEGE       1 IBM360-65 4 Y Y Y Y N N N N          1  3  0  1  5 N N N N N N N P N N P O O N P O N N N O O N N N N O N

MASS INST OF TECHNOLOGY     3 IBM360-30 1 Y N Y Y N N N N 4 5      4  3 17  4  3 O O O O O O O O O N O O P O O   P P N O O O O O O O P
                              IBM7094   4 Y N Y N N N N N 10                                   0     0         0               0

MERRIMACK COLLEGE           2 IBM1130   2 Y N N Y N N N N 0 1 0 0  3  3  3  4  2   P P P N N N N N N O O P N P P P P P   P P P P P P P
                                                                                 0                                     0

NORTHEASTERN UNIVERSITY     6 CDC3300   1 Y N Y Y N N N N 2 7      3  1 19  3  3 O N N N O O N N   N N N P N N P P P N O P O N P O P N
                              IBM360-25 1 Y N Y Y N N N N 4 1                                    0

REGIS COLLEGE               1 RCA7045   5 Y N Y Y Y N N N          6  3  0  5  5 N N N N N N N N N N O O O N O N N N N O N N N N O O N
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NAME OF INSTITUTION         E COMPUTER   F  INPUT/OUTPUT   STORAGE AC SA SS SP WS ********************APPLICATIONS*********************
                            N             I P P M P T T O O M D D D DO YN IT ER OC
                            R             N U A A R E E P P A I A R MM SA ZA RI RH
                            O               N P G I R R S R G S T U IP TL EF VO KE
                            L             A       N M M C E   K A M NU EY  F IR  D
                            M             R C T T T   A A T          T MS  O CI  U
                            N             R R P P E   V N D P   C    E SI F  ET  L                   1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2
                            Y               D E E R   I     E   L    R  S     Y  E 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7

SO-EASTRN MASS TECH INST    2 IBM360-30  1 Y N Y Y N N N N 2 2 0 0  1  2  9  3  1 P N N P N N N N N N O O O O P P P P O O P P O P P P P

SPRINGFIELD COLLEGE         2 IBM360-20  1 Y N N Y N N N N          2  3  6  1  2 O N N O N N N N O N N O N N N N N N N O N N N N O O N

STONEHILL COLLEGE           2            4 N N N N N N N N          1  1  0  5  5 N N N N N N N N N N N O N N O O N N O N N N N N N N N

TUFTS UNIVERSITY            3 HON200     1 Y N Y Y N N N N 5 0 0 0  2  1 24  1  3 O O N N N N N N O N N O N N N N N N N O N O N N N O N

UNIV OF MASSACHUSETTS       5 IBM360-30  1 Y N Y Y N N N N 4 1      2  3 38  1  4 O N N N O O N O O O O O N N O N O O O O O O O O O O N
                              IBM360-40  1 Y N Y Y Y Y N N 2 8                    O       O O   O O O O O     O   O O O O O O O O O O

UNIV OF MASS AT BOSTON      2 IBM360-30  1 Y N Y Y N N N N   1      4  3  0  3  3 O N N N N N N P N P P O N P O P P P O O P P P P O O P
                              IBM360-40  1 Y N Y Y N N N N                        O                     O     O       O O         O O

WELLESLEY COLLEGE           2 UNI1004    4 N N N N N N N N          4  3  8  2  1 O N N O N N N N N N P P P N N N N P P P N P P N N N P

WESTERN NEW ENGLAND COLL    2 IBM1130    1 Y N N Y N N N N 0 1 0 0  3  3  5  1  2 O N N P N N N O N O O O O N O O N N O O N O N N N N N

WHEATON COLLEGE             2 RCASPEC70  5 Y N Y Y N N N N 6 7 0 0  4  3  4  1  1 O O N O N N O P P P P N N N P P N N P P P O O P P P N

WILLIAMS COLLEGE            2 IBM1130    2 Y N N Y N N N N 0 1 0 0  3  3  3  3  2 O N N N N N N N N N N N N N N P N N P P O O P P O P P

WORCESTER JUNIOR COLLEGE    2 IBM1620    1 Y N N N N N N N          3  5  5  2  2 N N N N N N N N N N N O N N O N N N O O O N N N N N N


********** MICHIGAN
ADRIAN COLLEGE              2 IBM1401    5 Y N N Y N N N N          6  3  0  5  5 O N N N N N N N N O O O N N O N N N N O N N N N N N N

ALBION COLLEGE              2 IBM  1401  1 N N N N N N N N   2      3  3  8  2  2 O N N N N N N N O O O O N P N O N N N O P N O O O N N

ALMA COLLEGE                2 IBM360-30  3 Y N Y N N N N N 2 3 0 0  6  2  0  5  3 N N N N N N N N N N N O N N N N N N N O N N N N N N N

ANDREWS UNIVERSITY          2 IBM1401    1 Y N N Y N N N N 0 2 0 0  3  3 18  3  3 P N N N N N N N O N P O N N N P N N N O N N O P O N N
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NAME OF INSTITUTION         E COMPUTER   F INPUT/OUTPUT    STORAGE AC SA SS SP WS ********************APPLICATIONS********************
                            N            I P P M P T T O O M D D D DO YN IT ER OC
                            R            N U A A R F E P P A I A R MM SA ZA RI RH
                            O              N P G I R R S R G S T U IP TL EF VO KE
                            L            A       N M M C E   K A M NU EY  F IR  D
                            M            R C T T T     A A T        T MS O  CI  U
                            N            R R P P E   V N D P   C    E SI F  ET  L                    1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2
                            I              D E E R   I     E   L    R S      Y  E 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7

CALVIN COLLEGE              2 IBM1401-8  1 Y N N N N N N N 0 2 0 0  2  3  5  2  3 O N N N N N N N N N N O N N N N N N N O P N O N O O N

CENTRAL MICHIGAN UNIV       4 IBM1401    1 Y N Y Y N N Y N 4 1      3  5 10  3  3 O N N O P N N P N O P O N O O N N N O O N O O P O N N

DETROIT INST OF TECH        2 IBM1620      Y N N Y N N N N          3  3  6  3  1 O N N O N N N N O N O O O N O O N N N O O O O N O O N

FERRIS STATE COLLEGE        3 IBM360-30  1 Y N Y Y N N N N 2 4      2  3 12  1  3 P N N N N P N P P O P O N O O P N N P O N N N P P N N

GENERAL MOTORS INSTITUTE    2 IBM  1401  1 Y N N Y N N N N 0 3      3  3 16  1  3 P N N N N P N O O N N O N N N N N N N O N P P P N O N

GRAND RAPIDS JUNIOR COLL    3 IBM1401    1 Y N N Y N N N N 0 3 0 0  6  3 12  5  2 P N N N N P N N O N O O P O O O P P O O P N O P P P N

HOPE COLLEGE                2 IBM1130    1 Y N N Y N N N N 0 1 0 0  3  1  5  3  3 O N N O N N N N O O O O N N P N N N O O O N O O O O P

JACKSON COMM COLLEGE        2 IBM1620    2 Y N N N N N N N   2      6  3  7  1  1 N N P N N N N P P N P O P N P P P P N P N N P N P N N

KALAMAZOO COLLEGE           2 IBM1620-2  2 Y N N Y N N N N   1      3  3  3  4  1 O O P O O P N N O N N O O O P O N N P P P O O N P N N

LANSING COMM COLLEGE        3 RCASP7035  1 N N N N N N N N 4 2      3  3 17  1  2 O N N N N P N O O N O O N P O O N N N O P N O N O P N

LAWRENCE INST OF TECH       2 IBM1130    1 Y N N Y N N N N   2      3  5 10  1  3 P N P N N N N O O N O O O O P P P P O O P N O O O O N

MACOMB COUNTY COMM COLL     4 IBM  1401  1 Y N Y Y N N N N 2 3 0 0  2  2 12  3  1 O P P N N N N N N N P O N N O O N N N O N N N N O N N

MERCY COLLEGE OF DETROIT    2 UNIOC9400  4 Y N N N N N N N          6  2  0  0  5 P N N N N N N N N N O O O N N N N N N O N P O N O O N

MICHIGAN ST UNIVERSITY      6 IBM360-40  1 Y Y Y Y Y Y Y N 7 1 0 0  2  3 13  3  4 O N N N O N N O O N O O N O O O N O N O O O O O O O N
                              IBM360-40  1 Y N Y Y Y Y Y N 5 1 0 0
MICHIGAN TECH UNIVERSITY    2 IBM1401    1 Y N N Y Y N N Y 2 3 0 0  1  3 13  1  3 O N N O N O N O O N O O O O P P P P O O P O O O O O P

NORTHERN MICH UNIVERSITY    3 IBM360-25  1 Y Y N Y N N N N 2 3 0 0  2  3 17  1  2 O N N N N N N O O N O O N N O P N N O O N O O O O P N
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NAME OF INSTITUTION         E COMPUTER  F  INPUT/OUTPUT   STORAGE AC SA SS SP WS ********************APPLICATIONS*********************
                            N           I P P M P T T O O M D D D DO YN IT ER OC
                            R           N U A A R E E P P A I A R MM SA ZA RI RH
                            O             N P G I R R S R G S T U IP TL EF VO KE
                            L           A       N M M C E   K A M NU EY  F IR  D
                            M           R C T T T     A A T        T MS O  CI  U
                            N           R R P P E   V N D P   C    E SI F  ET  L                   1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2
                            T             D E E R   I     E   I    R  S     Y  E 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7

OAKLAND COMM COLLEGE        4 IBM360-40 1 Y N Y Y Y N N N 2 9      3  3 18  1  3 O N O O N O N O O N O O P O O O P P O O O O O P O O N

OAKLAND UNIVERSITY          3 IBM360-40 1 Y N Y Y N N N N 4 2      3  3  9  3  3   N       N N P N N P   P N   P P P N   N P   P   N
                              IBM1620   3 Y N N Y N N N N   2                     O   O O O             O     O         O     O   O   O

OWOSSO COLLEGE              1 IBM360-20 3 Y N N Y N N N N 0 0 0 0  1  4  0  4  2 O N N O N N N N N N N N N N N N N N N N N N N N N N N

SCHOOLCRAFT COLLEGE         3 HONM-200  1 Y N Y Y N N N N 4        3  3  4  3  2 N N N N N N N O N N O O N O N O N N N O N N O O O N N
                                                                                                O     O O   O   O       O     O O O

SPRING ARBOR COLLEGE        1 IBM  1401 4 Y N N Y N N N N   2      6  3  8  3  3 O N N N N N N P O P P O N N O O N N O O N N N N O O N

SUOMI COLLEGE               1 IBM1130   4 Y N N Y N N N N   2      6  3  9  4  4 P P P P P P P N N N N O O N O O O O N O N N N N N N N

UNIVERSITY OF MICHIGAN      6 IBM360-40 1 Y N Y Y Y N N N 8 8 0 0  4  3100  3  3 O N O O P P N N P N O O N O P P N P N P N O O O O O N
                              IBM360-67 2 Y N Y Y Y N N N 8 18 1 2

WAYNE STATE UNIVERSITY      6 IBM360-65 1 N N Y Y N N N N 8 16 0 2  3  3  7  3  4 O P P P N P P N O N O O N O P P P P O O N O P P O P N
                              IBM360-50 1 Y N Y Y N N N N 8 16 0 0

WESTERN MICHIGAN UNIV       6 IBM360-30 1 Y N Y Y N N Y N 4 4      2  3 28  1  4 O O O O N N N O P N O O P O P N P P O O O P P O O O N


********** MINNESOTA

BEMIDJI STATE COLLEGE       2 IBM1401   1 Y N N Y N N N N   2      3  3  6  1  1 O N O O N O N N O N P O N O N O N N O O P N O P O O N

BETHEL COLL AND SEMINARY    2 IBM       4 Y N N Y N N N N 2 2      6  3  0  1  5 N N N N N N N N N N N P N N N N N N N O N N N N N N N

CARLETON COLLEGE            2 IBM1401   1 Y N N Y Y N N N   2      4  3  6  1  1 O N N N O O N N O N N O N O P P N P N O O O P P O   P
                              IBM1620   2 Y N N N N N N N                                                                 O         O

COLLEGE OF ST BENEDICT      1 IBM1620   2 Y N N N N N N N   2      3  2  4  3  2 O N N O O O N P O N O O O O N N N N O O O O O O O O P

COLLEGE OF ST CATHERINE     2 IBM360-30 4 Y N Y Y N N N N 2 5 0 0  6  3 12  1  4 N N N N N N N N N N N O N N O O N N N O N N P N P N N

COLL OF ST SCHOLASTICA      1           4 N N N N N N N N          6  3  0  5  5 N N N N N N N N N N N N N N N O N N N O O N N N O N N
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NAME OF INSTITUTION         E COMPUTER   F  INPUT/OUTPUT    STORAGE AC SA SS SP WS ************************APPLICATIONS***********************
                            N            I P P M P T T O O M D D D DO VN IT ER OC
                            R            N U A A R E E P P A I A R MM SA ZA RI RH
                            O              N P G I R R S R G S T U IP TL EF VO KE
                            L            A       N M M C E K A M NU EY  F IR  O
                            M            R C T T T     A A T        T MS O  CI  U
                            N            R R P P E   V N D P   C    E SI F  ET  L                    1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2
                            T              D E E R   I     E   L    R S      Y  E 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7

COLLEGE OF SAINT TERESA     2 IBM1130    1 Y N Y Y N N N N   1       5  1 40  1  1 P P N N N N N P N N P O N N O P N N N O P P P P N P N

COLLEGE OF SAINT THOMAS     2 CDC160-A   3,Y N Y Y N N N N 4 0 0 0   3  3 12  1  2 P N N O N N N O O N N O N O O O N N O O O N N N O N N
                              CDC6600    4 Y N Y Y N N N N 8 2 0 0

CONCORDIA COLL-MOREHEAD     2 IBM1620    2 Y N N N N N N N 0 0 0 0   3  3  7  1  2 N N N O O O N O N N N O N N N N N N O O N N O P O N N

CONCORDIA COLL-ST PAUL      1 CDC160-A   4 Y N Y Y N N N N 4 0 0 0   6  3 13  4  2 P N P P N N N N N N N O O N O N N N N O N P P P O P N

GUSTAVUS ADOLPHUS COLL      2 IBM360-30  4 N N N N N N N N   4       6  3  0  5  5 N N N N N N N O N N O O O O N N N N O O N N N P O P O

MACALESTER COLLEGE          2 IBM1130    2 Y N N Y N N N N   1       6  3  5  1  1 P N N N N N N N N N O O P N P P P P N O N N O O O O N
                              NCR200     1 Y N N Y N Y N N   2 1

MANKATO STATE COLLEGE       4 IBM1401    1 Y N Y Y N N Y N 3 2 0 0   3  3 25  1  4 O N N N N N N O O N O O P N O P P P N O O P O N O N N
                              IBM1620    2 Y N N N N N Y N 0 1 0 0                      O     O

MOORHEAD STATE COLLEGE      3 IBM1620    2 Y N N Y N N N N 0 0 0 0   3  3  5  1  1 O N N O O P N N N N N O N N O N N N N O O N O N O N N

ROCHESTER STATE JR COLL     2 IBM        2 Y N Y Y N N N N           4  3  0  1  2 N N N N N P N N P P O O O N P P P P P O P N O N O N N

SAINT CLOUD STATE COLL      3 IBM1401    1 Y N Y Y N N N N 2 2       3  3 11  1  2 N N N N N P N N P N N O N O N O N N O O O N O P O N N

ST JOHNS UNIVERSITY         2 IBM1620    2 Y N N N N N N N   2       3  2  4  3  2 O N N O O O N P O N O O O O N N N N O O O O O O O O P

SAINT MARYS COLLEGE         2 IBM1130    2 N N N N N N N N           3  3  4  1  2 O N N N N N N N O N O O N N N O N N N O P N O N O P P

SAINT MARYS JUNIOR COLL     1 IBM360-30  4 Y N Y Y N N N N 2 5 0 0   6  3 12  1  4 N N N N N N N N N N N O N N O O N N N O O N N N P N N

SAINT OLAF COLLEGE          2 IBM1401B   1 Y N N Y N N N N 0 0 0 0   4  3  5  4  2 O N O O N N N N N O O O N O N P N N N O N O O N O O P

S W MINNESOTA ST COLLEGE    2 IBM1130    1 Y N N Y N N N N 0 3 0 0   7  3  7  1  2 O N N O O P N N N O O O N N O O N N O O O N O O N N N

UNIVERSITY OF MINNESOTA     6 IBM360-50  2 Y N Y Y Y Y Y N 5 8 0 0   4  3 47  2  3 O O O O N O P N P P P O P N O P P P P O P O O O O O P
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NAME OF INSTITUTION        E COMPUTER  F INPUT/OUTPUT    STORAGE AC SA SS SP WS ••••••••••••••••••••APPLICATIONS••••••••••••••••••••
                           N           I P P M P T T O O M D D D DO VN IT ER OC
                           R           N U A A R E E P P A I A R MM SA ZA RI RH
                           O             N P G I R R S R G S T U IP TL EF VO KE
                           L           A       N M M C E   K A M NU EY  F IR  D
                           M           R C T T T     A A T        T MS O  CI  U
                           N           R R P P E   V N D P   C    E SI F  ET  L                   1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2
                           I             D E E R   I     E   L    R  S     Y  E 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7
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UNIV OF MINNESOTA-DULUTH   3 CDC3200   2 Y N Y Y N N N N 2 2 0 0  3  1  9  1  1 0 0 0 N N P N N N N 0 0 P N P P P P P P P P P P P P N

WINONA STATE COLLEGE       2 IBM1130   1 Y N N N N N N N 0 1 0 0  5  1 16  1  1 0 N N N 0 P N N P P P 0 N 0 0 0 N N 0 0 N N 0 0 0 0 N

WORTHINGTON JR. COLLEGE    1           5 N N N N N N N N          6  0  0  2  5 0 N N N N N N N 0 N N 0 0 N P 0 N N N 0 0 N 0 N 0 0 N


•••••••••• MISSISSIPPI

JACKSON STATE COLLEGE      2 IBM360-20 1 Y N N Y N N N N   2      4  3  8  1  2 P N N N P P N P 0 P 0 0 P 0 0 0 0 P 0 0 P P 0 P 0 P P
                             IBM1130   1 Y N N N N N N N   1

MISSISSIPPI COLLEGE        2 IBM  1620 2 Y N N N N N N N 0 0 0 0  2  3  4  2  1 0 N N N N N N N N N P 0 N N 0 N N N 0 0 P N 0 N 0 P N

MISS ST COLL FOR WOMEN     2 IBM360-20 1 Y N N Y N N N N 0 0 0 0  2  3  3  1  1 0 N N 0 0 N N 0 0 N 0 0 N N 0 N N N N 0 0 N 0 N N N N

MISSISSIPPI STATE UNIV     3 IBM1401   1 Y N Y Y N N N N 4 1 0 0  2  3 16  1  3 N N N 0 N N N   N N 0 0 0 0 N N N N 0 0 N N 0 0 0 0 N
                             IBM360-40 1 Y N Y Y N N N N 4 3 0 0
                                                                                              0
MISS VALLEY STATE COLL     2 IBM360-20 1 Y N N Y N N N N          3  1  5  1  1 P P N 0 N N N P N N 0 0 0 H P 0 P N N 0 N N 0 0 0 0 N

UNIV OF MISSISSIPPI        3 IBM360-40 1 Y N Y Y N N N N 4 9      2  3 10  1  2 0 N N 0 N N N P P P 0 0 P 0 P P N N 0 0 P 0 0 0 0 N N

UNIV OF SOUTHERN MISS      3 IBM360-30 1 Y N Y Y N N Y N 4 2      4  1 11  4  3 P P P N N N N P P 0 P 0 N 0 P N P P 0 0 P P 0 P 0 P P


•••••••••• MISSOURI

CENTRAL MISSOURI ST COLL   4 IBM360-40 1 Y N N Y N N N N 0 4 0 0  3  3 11  1  3 0 N N N P P N N 0 N 0 0 P N 0 P P P 0 0 0 N 0 P 0 N N
                             IBM1620   2 N N N N N N N N 0 1 0 0

CULVER-STOCKTON COLLEGE    1 IBM       4 N N N N N N N N          6  5  0  5  5 N N N N N N N N N N N N N N N N N N N N N N N N N N N

DRURY COLLEGE              2 NCR   100 1 Y N N Y N N N N   2      3  3  6  3  2 0 N N N N N N P P P P 0 N P P P N N N 0 P P 0 N 0 0 N

EVANGEL COLLEGE            1 NCRC-100  1 Y N N Y N N N N   2      3  3  4  1  1 N N P P N N N 0 N 0 0 0 0 P N 0 0 0 0 0 0 N 0 N P P N
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NAME OF INSTITUTION       E COMPUTER   F  INPUT/OUTPUT   STORAGE AC SA SS SP WS ********************APPLICATIONS*******************
                          N            I P P M P T T O O M D D D DO YN IT ER OC
                          R            N U A A R E E P P A I A R MM SA ZA RI SH
                          O              N P G I R R S R G S T U IP TL EF VO KE
                          L            A       N M M C E   K A M NU EY  F IR  D
                          M            R C T T T     A A T        T MS O  CI  U
                          N            R R P P E   V N O P   C    E SI F  ET  L                   1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2
                          T              D E E R   I     E   L    R  S     Y  E 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7

FONTBONNE COLLEGE         1 IBM360-30  4 Y N Y Y N N N N 4 2 0 0  6  3 39  0  4 N N N N N N N N N N N O O N N N N N N O O N N N O N N

JR COLL DIS' OF ST LOUIS  5 IBM360-40  1 Y N N Y N N N N 0 4 0 0  3  3 13  3  3 O N N O N N N P P P P O P N O O P P O O O P O O O O O

KANSAS CITY ART INST      1 IBM360-40  4 N N N N N N N N 3 2 0 0  6  2  4  0  5 O N N N N N N N N N N O N N O O N N O O O O O N P P P

MARILLAC COLLEGE          1 IBM        4 N N N N N N N N          6  0  0  5  5 N N N N N N N N N N N N N N N O N N N O N N N N N N N

MARYVILLE COLLEGE         1            4 N N N N N N N N          6  3  0  4  5 N N N N N N N N N N O O O N N N O O N O O N N N O N O

MISSOURI SOUTHERN COLL    2 IBM  1130  2 Y N N Y N N N N   1      3  3  6  3  2 O N N N N N N N O N O O O P O O N N O O P N O P P O P

MISSOURI WESTERN COLLEGE  2 IBM1130    1 Y N N Y N N N N 0 2 0 0  3  3  7  1  2 O N P P N P N N O N O O N N O O N N O O O P O O P O N

N E MISSOURI ST COLLEGE   3 IBM1401    1 Y N Y Y N N N N 4 4      3  3 13  1  3 O N N N N N N N N N O O N N O P N N N O P N O O O P P

PARK COLLEGE              1 IBM360-30  4 Y N Y N N N N N 2 3      6  3  0  4  4 P N N N N N N N O O P O N O N N N N N O O O O O O P N

ROCKHURST COLLEGE         2 IBM  1620  2 Y N N N N N N N          3  2  3  5  2 P N N N N N P N O N P O N N O N N N N O N N O P O P N

SAINT LOUIS UNIVERSITY    4 IBM1401-2  1 Y N Y Y N N N N 2 3      2  3 22  1  3 O N N O N P N N N N N O N N O P N N N O N O O P N N N

S E MISSOURI ST COLLEGE   3 IBM360-40  3 Y N Y Y N Y Y N 2 3      3  3 21  4  3 P P P N O N N O N N O O P O N P P P O O P P O O O O O

S W MISSOURI ST COLLEGE   3 IBM1401    1 Y N N Y N N N N   2      2  1  9  1  2 O N O N N N N N P N O O N O N N N N O O N N N N O O N

STEPHENS COLLEGE        . 2 IBM360-20  2 Y N N N N N N N 0 0 0 0  2  3  5  2  1 O N N N O N N N N O O O N N N N N N N O O O O P O O N

TARKIO COLLEGE            1 IBM  1130  1 N N N N N N N N          3  3  4  3  1 O N O O N N N N O N N O O N O P N N N O O O N P N O O N

UNIV OF MO-COLUMBIA       6 IBM360-40  1 Y N Y Y N N N N 6 8 0 0  4  3 67  1  4   N   N   N N O O N P O P N O O P P P O N N O   O N N
                            IBM360-20  1 Y N Y Y N N N N 2 0 0 0                O   O   O     O O     O     O O       O     O O O
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NAME OF INSTITUTION      E COMPUTER   F  INPUT/OUTPUT   STORAGE AC SA SS SP WS ••••••••••••••••••••APPLICATIONS•••••••••••••••••••••
                         N            I P P M P T T O O M D D D DO YM IT ER OC
                         R            N U A A R E E P P A I A R MM SA ZA RI RH
                         O              N P G I R R S R G S T U IP TL EF VO KE
                         L            A       N M M C E   K A M NU EY  F IR  D
                         M            R C T T T     A A T       T  MS O  CI  U
                         N            R R P P E   V M D P   C   E  SI F  ET  L                   1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2
                         T              D E F R   I     E   L   R   S     Y  E 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7

UNIV OF MO-KANSAS CITY   3 IBM360-30  1 Y N Y Y N N N N 2 3     3   3 14  1  3 0 P P P N P P P 0 0 P 0 P 0 0 0 P P 0 0 0 0 0 0 0 0 P

UNIV OF MISSOURI-ROLLA   3 IBM360-50  1 Y N Y Y N N N N 2 6     3   3  0  2  3 P N N 0 N N N 0 N N N 0 N N P P N N 0 0 N N N N N N N

UNIV OF MO-ST LOUIS      3 IBM360-40  1 Y N Y Y N N N N 6 9     4   2  0  1  3 0 N P   N P N 0   N   0 P     N N N   0 N   0   0 0 N
                           IBM360-20  1 Y N Y Y N N N N 2 0                          0         0   0     0 0       0     0   0

WASHINGTON UNIVERSITY    3 IBM1401    2 Y N Y Y N N N N 4 1     3   3 52  1  4 0 N 0 N N N N     N   0 N 0 0 0 N N N 0 N 0 N N 0 0 N
                           IBM360-50  1 Y N Y Y N N N N 4 8                                  0 0   0 0     0

WESTMINISTER COLLEGE     1 NCRCEN100  1 Y N N Y N N N N 0 2 0 0 3   3  8  4  3 P N P N N P N N N N N 0 0 N 0 P N N 0 0 N N N P N N N


•••••••••• MONTANA

COLLEGE OF GREAT FALLS   2 IBM360-20  4 Y N N Y N N N N         6   3  9  5  3 0 N N N N P N N N N N 0 N N N N N N N 0 P N P N N N N

EASTERN MONTANA COLLEGE  2 IBM360-20  1 Y N N Y N N N N         4   3  6  3  2 0 N N 0 N N N P 0 0 N 0 N 0 0 N N N 0 0 P 0 0 0 0 0 P

MONT COL OF MIN SCI&TECH 1 IBM        2 Y N N Y N N N N         5   3  9  1  2 P N N N N N N N N N N 0 N N 0 N N N P P N N N N N P N

MONTANA STATE UNIVERSITY 3 XDSSIGMA7  1 Y N Y Y N N N N 3 3 0 0 3   5 32  4  2 N N N N N N N 0 0 N N N N N N N N N N   N N N N     N
                           UNI9300    1 Y N Y Y N N N N 3 0 0 0                              0                       0         0 0
NORTHERN MONTANA COLLEGE 2 IBM360-20  4 Y N N N N N N N   2     6   2  5  1  1 N N N N N N N N N N N 0 N N N N N N N 0 N N N N 0 N N

UNIVERSITY OF MONTANA    3 IBM1401    1 Y N Y Y N N N N 4 2     4   5 19  1  4 0 N N N N 0 N N 0 N N 0 N N N N N N 0 0 N N 0 N 0 N N


•••••••••• NEBRASKA

CONCORDIA TEACHERS COLL  2 IBM1130    1 Y N N N N N N N   1     2   3  9  1  1 N N N N N N N N 0 N 0 0 0 N 0 N N N N 0 N N 0 N 0 N N

CREIGHTON UNIVERSITY     2 HON1200    4 Y N Y Y N N N N 3 3     6   2 29  1  3 P N N P N N N N N N N 0 N 0 N N N N 0 0 0 P 0 0 0 0 N
                           IBM1130    2 Y N N N N N N N   1
DOANE COLLEGE            1 IBM1130    4 Y N N Y N N N N 0 1 0 0 6   4  0  5  5 N N N N N N N 0 N N N 0 N P P P N N N 0 N N N N N N N
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NAME OF INSTITUTION        E COMPUTER   F  INPUT/OUTPUT   STORAGE AC SA SS SP WS ********************APPLICATIONS*********************
                           N            I P P M P T T O O M D D D DO YN IT ER OC
                           R            N U A A R E E P P A I A R MM SA ZA RI RH
                           O              N P G I R R S R G S T U IP TL EF VO KE
                           L            A       N M M C E   K A M NU EY  F IR  D
                           M            R C T T T     A A T        T MS O  CI  U
                           N            R R P P E   V N D P   C    E SI F  ET  L                   1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2
                           T              D E E R   I     E   L    R  S     Y  E 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7

HIRAM SCOTT COLLEGE        2            5 N N N N N N N N           6  0  0  5  5 N N N N N N N N N N N N N N N N N N N N N N N N N N N

KEARNEY STATE COLLEGE      3 IBM1130    1 Y N N N N K N N 0 1 0 0   5  3 10  2  2 N N N N N N N N N O N N N N N O N N O O N N N N O N N

MIDLAND LUTHERAN COLLEGE   1 HON        4 N N N N N N N N           6  3  0  5  5 N N N N N N N N N N N     N N P N N P     N P N P P N
                                                                                                       O O             O O
NEBRASKA WESLEYAN UNIV     2 IBM1620    2 Y N N N N N N N 0 0 0 0   3  3  0  4  1 O N N O N N N N O N O O N O N N N N O O N N O O O N N

PLATTE COLLEGE             1 NCR100     4 N N N N N N N N           1  1  0  5  5 O N N N N N N N N N N O O N O O N N N O O N N N N N N

UNION COLLEGE              1 UNI   9200 2 Y N Y Y N N N N 4         2  3 10  3  2 P P P P P P P P O P O O P O O N N N N O O P P N O O N

UNIV OF NEBRASKA-LINCOLN   5 IBM360-30  2 Y N Y Y N N Y N 5 3       4  3 24  1  4 O N N N N O N O O N O O P O O O P P O O P O O O O O P

UNIV OF NEBRASKA-OMAHA     4 IBM360-20  1 Y N N N N N N N 2 3 0 0   3  3 10  1  2 O N O O N P N P O P O O O O O O P P O O O P O P O O N

YORK COLLEGE               1            4 N N N N N N N N           6  0  0  5  5 N N N N N N N N N N N N O N O O N N O O O N N N N N N


********** NEVADA

UNIVERSITY OF NEVADA       3 IBM1620    1 Y N N Y N N N N 0 4 0 0   3  3  4  1  2 N N N N N N N P P N O O P O N N N P O O N N O P P N N
                             XDSSIGMA7  2 N N N N N N N N 2 1 0 0

********** NEW HAMPSHIRE

SAINT ANSELMS COLLEGE      2 IBM   1130 1 Y N N N N N N N   1       3  3  4  1  2 O N N N N N N N N N O O N N O P N N N O O N O P O N N

UNIV OF NEW HAMPSHIRE      4 IBM360-40  1 Y N Y Y N N N N 5 4 0 0   3  4 28  2  4 N N N N P N N O O N O O N N P P N N N O P O O O O N N
                             IBM1620    2 Y N Y N N N N N 2 0 0 0                               O

********** NEW JERSEY

ATLANTIC COMM COLLEGE      2            4 N N N N N N N N           6  0  0  0  0 N N N N N N N P N N N N N N O P N N N N N N N N N N N
                                                                                                             O
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NAME OF INSTITUTION         E COMPUTER  F INPUT/OUTPUT    STORAGE AC SA SS SP WS •••••••••••••••••••••APPLICATIONS••••••••••••••••••••••
                            N           I P P M P T T O O M D D D DO VN IT ER OC
                            R           N U A A R E E P P A I A R MM SA ZA RI RH
                            O             N P G I R R S R G S T U IP TL EF VO KE
                            L           A       N M M C E   K A M NU EY  F IR  D
                            M           R C T T T     A A T        T MS O  CI  U
                            N           R R P P E   V N D P   C    E SI F  ET  L                   1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2
                            T             D E E R   I     E   L    R  S     Y  E 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7

BROOKDALE COMM COLLEGE      2 IBM360-40 4 N N N N N N N N 4 2 0 0  2  3 10  1  1 O N N N N N N O O N O O N N O P P P P O P O O O O O O

FAIRLEIGH-DICKINSON UNIV    5 IBM360-30 1 Y N N Y N N N N   4      3  3 18  1  3 O N N O P N N N N N N O N O O N N N O O P O O N P O N

GLASSBORO STATE COLLEGE     2 IBM  1130 1 Y N N N N N N N   1      6  2  5  4  1 O O O O N N N O O N O O O N N N N N N O O O N N O N N
                              IBM360-50 4 Y N Y Y N N N N 4 3

JERSEY CITY STATE COLL      3 IBM1130   1 Y N Y Y N N N N 0 1 0 0  3  2  9  1  1 P N N N N P N   P N P P N N O P P P P O N P P P P N N
                              IBM360-67 4 Y N Y Y N N N N 4 8 0 2                              O

MERCER COUNTY COMM COLL     2 IBM360-40 1 Y N Y Y N N N N 2 3      3  3  7  4  1 O N O N N P P O O O O O N N O O N N O O N N O P O P N

MIDDLESEX COUNTY COLLEGE    2 IBM1401   1 Y N Y Y N N N N   4      2  3  9  2  1 O O O O N O N O N N N O N P O O N N O O N N O O O N N

MONTCLAIR STATE COLLEGE     2 IBM360-67 5 Y N Y Y Y N N N 4 9 0 2  6  4  0  3  5 P P P N N N N O N N P O O P P P P P N O N P P P O N N

NEWARK COLLEGE OF ENGR      3 RCA70-45G 1 Y N Y Y N N N N 6 2 0 0  3  3  9  1  3 O N N P N N N O N N O O N N N P P P P O P P P P O P N

NEWARK STATE COLLEGE        2 IBM1130   [illegible] Y N N N N N N N   1      6  2  0  3  1 O N O O N P N     N O O N O O P N N O O N O O O   P P
                              IBM36067  5 Y N N Y N N N N 4 9   1                              O O   O O                         O

PATTERSON STATE COLLEGE     2 IBM1401   4 Y N Y Y N N N N 4 0 0 0  3  3  7  1  1 O N N N N N N   N N       N O P P P O O O P O O O P P
                              IBM360-67 5 Y N Y Y Y N N N 4 8 0 2                              O     O O O

PRINCETON UNIVERSITY        2 IBM360-50 2 Y N Y Y N N N N 2 8      4  1 16  3  3 O N O O N O N P N N P O N N P P P P O O P O O P O O P
                              IBM360-91 2 Y N Y Y Y N N N 8 16  1

RIDER COLLEGE               2 IBM1130   1 Y N N Y N N N N   3      3  3  3  1  1 O O N N N N N P N N O O N O P O N N N O N O O N O O N

RUTGERS STATE UNIVERSITY    6 IBM360-30 1 Y N Y Y N N N N 7 3      4  3 33  3  3 O O O N N O N O O N O O P O O P P P O O N O O O O N N

SETON HALL UNIVERSITY       3 IBM1620   2 Y N N Y Y N N N   1      3  3  9  2  1 O P P O N N N O O N O O N O O O N O N O O P O O O O O
                              INTMOD-4  2 Y N N Y Y N N N                                                  O     O     O   O O   O O O O O

SAINT PETERS COLLEGE        2 IBM360-25 1 Y N Y Y N N N N 2 2 0 0  4  3  7  1  2 O N N N N N N N N N N O N N N O N N N O P O N N O O N

TRENTON STATE COLLEGE       2 IBM1130   1 Y N N N N N N N   1      3  2  7  1  2 O P P N P P N   N N O O N O P P P P P O N P O O P P O
                              IBM360-67 5 Y N Y Y N N N N 4 9   2                              O       O
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NAME OF INSTITUTION         E COMPUTER  F INPUT/OUTPUT    STORAGE AC SA SS SP WS ********************APPLICATIONS*********************
                            N           I P P M P T T O O M D D D DO VN IT ER DE
                            R           N U A A R E E P P A I A R MM SA ZA RI RH
                            O             M P G I R R S R G S T U IP TL EF VO KE
                            L           A       N M M C E   K A M NU EY  F IR  D
                            M           R C T T T     A A T         T MS O  CI  U
                            N           R R P P E   V N D P   C     E SI F  ET  L                   1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2
                            T             D E E R   I     E   L     R S      Y  E 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7

UNION COLLEGE               2 IBM1130   1 Y N N N N N N N 1         1  3  3  2  1 O N N N N N N O O N O O O N O O N N O O N O O N O N N

********** NEW MEXICO

EASTERN NEW MEXICO UNIV     2 IBM360-40 2 Y N Y Y N N N N 2 4       3  3 13  3  3 O P P O O P P P O N N O P N O O P P O O O P O O O P P

NEW MEXICO HIGHLANDS UNI    2 IBM360    1 Y N N Y N N N N 0 3 0 0   3  3  7  1  1 P P N N P N N P P N O O O N P N N N P O P P O N O P N

N M INST OF MIN & TECH      1 IBM36044  2 Y N Y Y N N N N 4 2       3  3 12  2  3 N N N N N N N N N N P O N N P P N N P P N N N P N N N

NEW MEXICO JR COLLEGE       2 IBM1401   1 Y N N Y N N N N           3  3  3  1  1 O N N N N N N N N N N O O P O N N N N O N N O O O N N

NEW MEXICO STATE UNIV       3 IBM360-50 1 Y N Y Y N N Y N 4 5       3  3  8  3  3 P N N N O P N N O N O O O O N O N N P O P N O O O P P

UNIVERSITY OF NEW MEXICO    4 IBM  1401 2 Y N Y Y N N Y N 4 3       2  3 40  2  4 O N N P N N N P O O O O N O O O N N N O N O O O N N N

WESTERN NEW MEXICO UNIV     2 IBM1130   1 Y N N Y N N N N           3  1  2  1  2 N N N N N N N N N N N O N N N N N N N O N N O O P N N
                                                                                                        O               O     O O

********** NEW YORK

ADELPHI UNIVERSITY          3 CDC3300   2 Y N Y N N N N N 2 2       3  3 22  4  3 N N N N N N N P N N P O O N P P N N P O P P O N O P P

ALFRED UNIVERSITY           2 IBM1800   1 Y N N Y N N N N   3       3  3  9  2  2 P P P P N N N O O O O O N N O O N N O O O P O O O O P

BARNARD COLLEGE             2 IBM360    5 Y N Y Y N N N N           6  3  0  5  5 O N O N N O N N N N N N N N N N N N N N N O O N N O N

CANISIUS COLLEGE            2 HON200    1 Y N Y Y N N N N 4 0 0 0   3  3  6  1  1 O P O O P N N N O N O O N N P P N N P O P O O N P P P

CUNY-CITY COL NEW YORK      6 IBM360-50   Y N Y Y Y N N Y 6 12 0 0  5  2 15  1  3 P N N N N N N N O N O O N O O O P O P O P O O O O O N
                              IBM7040     Y N Y Y N N N N 6 0 0 0
                                                                                                  O   O O

CUNY-BOR OF MANHATTN COL    3 IBM360-30 2 Y N Y Y N N N N 4 3 0 0   3  3  6  1  4 O N O O N N N P N O O O O N O O N N O O P N P P O O N
                              RCA70-35  2 Y N Y Y N N N N 4 2 0 0
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NAME OF INSTITUTION         E COMPUTER   F  INPUT/OUTPUT   STORAGE AC SA SS SP MS ••••••••••••••••••••••APPLICATIONS••••••••••••••••••••••
                            N            I P P M P T T O O M D D D DO YN IT ER OC
                            R            N U A A R E E P P A I A R MM SA ZA RI RH
                            O              N P G I R R S R G S T U IP TL EF VO KE
                            L            A       N M M C E   K A M NU EY  F IR  D
                            M            R C T T T     A A T        T MS O  CI  U
                            N            R R P P E   V N D P   C    E SI F  ET  L                   1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2
                            T              D E E R   I     E   L    R  S     Y  E 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7

CUNY-BRONX COMM COLLEGE     3 IBM360-30  2 Y N Y Y N N N N 2 3 0 0  3  3  7  2  2 N N N N N N N N N N P O P P O P P P O O P P O P O N P
                              IBM1620    2 Y N N N N N N N 0 0 0 0                                      O     O       O O     O   O

CUNY-BROOKLYN COLLEGE       5 IBM360-40  2 Y N Y Y N N N N 3 3 0 0  3  1 17  1  3 O O O N N N N P O O N O P N O P P P N O P O O O O P P

CUNY-GRADUATE DIVISION      2 IBM  7040  2 Y N Y Y N N N N 6 0 0 0  3  3  8  4  3 N N N N N N N O O N N O N N N P N N N O N N P P P P N
                              IBM  1130  2 Y N Y Y Y N N N 2 3 0 0

CUNY-M H LEHMAN COLLEGE     4 IBM1130    2 Y N N Y N N N N 0 2 0 0  3  3  6  3  2 P N P N N N N O O P P O O N P P P P P O O P O P O P P

CUNY-HUNTER COLLEGE         5 IBM360-40  2 Y N Y Y N N N N 4 3       3  3  8  1  3 P N P N N N N P O P O O P N P P P P P O P P N N N N N

CLARKSON COLLEGE OF TECH    2 IBM360-44  2 Y N N Y N N N N   2       3  3  3  1  1 P N N N O N N P N N O O N N O P N N O O O N N N O N N

COLGATE UNIVERSITY          2 IBM1401    1 Y N N Y N N N N   1       4  1  4  1  1 O N N N P N N P N P N O N O P P N N N O P O O P P P P

COLUMBIA UNIVERSITY         5 IBM360-91  2 N N N N N N N N 10 19 1 2  3  3  1  4  2 N N N N N N N N N N N   P N N N P P N   N N O P O N N
                              IBM1410    2 Y N Y N N N N N 4 0 0 0                                      O               O     O   O

COLUMBIA U-BARNARD COLL     2 IBM360     5 N N N N N N N N           6  4  0  0  5 O N O N N O N N N N N N N N N N N N N N N O N N N N N

COLUMBIA U-TEACHERS COLL    3 IBM1130    1 .   Y Y N N N N 2 5 0 0  3  3 28  1  1 P P P N N N N N P N O O N N N N N N N O N O O O O N N

CORNELL UNIVERSITY          4 IBM360-65  2 Y N Y Y N N N N 7 16 0 0 3  3 42  3  4 O P P P P P N P     O O P N     P P P O P O   P P P P
                              IBM1401    1 Y N Y Y N N N N 4 0 0 0                O               O O O O     O O       O     O

ELMIRA COLLEGE              2 IBM1130    1 Y N N Y N N N N   1       3  3  7  2  1 P N N P N N N N P N O O N N P P P P N O P P P P O P N

FORDHAM UNIVERSITY          4 IBM360-40  1 Y N N Y N N N N 0 3 0 0  3  2 11  2  3 O O O N N O N N N N P O N P O O N N N O N O O P O O N

HARTWICK COLLEGE            2 IBM1130    1 Y N N N N N N N   1       3  3  3  3  2 O N O O P P N N O N O O O N O P N N O O P O O N P N N

HOFSTRA COLLEGE             4 IBM360-25  1 Y N Y Y N N N N 4 0 0 0  2  3 12  2  2 P P P P N P N P N N O O N N O N N N N O N P P P P N N

HOUGHTON COLL-HOUGHTON      2 IBM1130    1 Y N N N N N N N 0 1 0 0  3  3  3  3  1 P N N N N N N O P N O O N N P P N N P P N N N N P N N
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NAME OF INSTITUTION         E COMPUTER  F INPUT/OUTPUT    STORAGE AC SA SS SP WS ********************APPLICATIONS*********************
                            N           I P P M P T T O O M D D D DO YN IT ER OC
                            R           N U A A R E E P P A I A R MM SA ZA RI RH
                            O             N P G I R R S R G S T U IP TL EF VO KE
                            L           A       N M M C E   K A M NU EY  F IR  D
                            M           R C T T T     A A T         T MS O  CI  U
                            N           R R P P E   V N D P   C     E SI F  ET  L                   1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2
                            T             D E E R   I     E   L     R  S     Y  E 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7

IONA COLLEGE                2 IBM1130   1 N N N N N N N N 1        4  3  5  1  1 P P P P N P N N N N N O N P N N N N N O N P P P O P P

ITHACA COLLEGE              2 RCA70/35  2 Y N Y Y N N Y N 2 3      3  3 12  3  2 O N P N N P N O O P P O N O P O N N P O P O O O O P P

KEUKA COLLEGE               1 IBM1130   1 Y N N N N N N N 0 1 0 0  3  3  2  2  2 O N P P N N N N N N O O N N O P N N N O P O O N P P N

LE MOYNE COLLEGE            2 IBM1130   1 Y N N N N N N N          3  3  4  1  2 P N N P N N N N P N N O P P P P N N P O P P P P O P P

L I U-MERRIWETHER CAMPUS    4 HON1250   1 Y N Y Y N N N N 6 1      4  3  9  2  2 O P P N N N P N O N O O N N P P P N N O O O P N O P N

MANHATTAN COLLEGE           2 CDC8090   2 Y N Y Y N N N N 4 0 0 0  3  3  4  1  1 N N N N N N N N N N O O N N O N N N N O N N N N O N N

MARIST COLLEGE              2 IBM1401   1 Y N N Y N N N N   2      3  3 11  1  1 O O N N N N N O O N O O N N O O N N N O O O O O O O O

MOHAWK VALLEY COMM COLL     2 IBM1401   1 Y N N Y N N N N   2      1  2  5  3  2 O N N N N N N N N N N O N N O N N N N O N N N N N N N

N Y INST OF TECH-METRO      2 IBM360 30 2 Y N Y Y N N Y Y 4 3 0 0  2  3 37  3  2 O P P P N P P P P P P O P O O O P P O O P P O P O P P

NEW YORK MEDICAL COLLEGE    1 IBM360-40 1 Y N Y Y N N N N 2 4 0 0  3  3 24  1  3 O N N N N N N N N N N N N N N N N N N N N N N N N O N

NIAGARA UNIVERSITY          2 IBM1130   1 Y N N Y N N N N   1      4  3  0  4  2 P N N N N N N O O N P O N N O P N N P O N P N P P N N
                              IBM360-30 4 Y N N Y N N N N   3

POLYTECH INST OF BROOKLY    3 IBM360-50 1 Y N Y Y Y Y N N 5 4      4  2  8  3  3 N P P P P P P P O P O O O O O O O O P O P O P P P P P

PRATT INSTITUTE             2 IBM1620   2 Y N N N N N N N   1      5  4  0  5  2 P N N N O N N N P N N P N N P P N N P O P P P N N P N

ROBERTS WESLEYAN COLLEGE    1           4 N N N N N N N N          6  5  1  5  5 N N N N N N N N N N N O N N O O N N N O N N O N N N N

ROCHESTER INST OF TECH      4 IBM360-30 1 Y Y Y Y N N N N 2 5 0 0  2  3 19  1  3 P N N P O N N N O N O O P O P P P P N O P P O N O O N

ROSARY HILL COLLEGE         2 UNI1004   4 Y N N Y N N N N 2 0 0 0  6  3 14  1  1 O N N N N N N N N N O O N N O N N N N O N O O N O O N
                              UNI9300   4 Y N Y Y N N N N 8 0 0 0                O                                     O
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NAME OF INSTITUTION         E COMPUTER   F INPUT/OUTPUT    STORAGE AC SA SS SP WS •••••••••••••••••••••APPLICATIONS•••••••••••••••••••••
                            N            I P P M P T T O O M D D D DO YN IT ER OC
                            R            N U A A R E E P P A I A R MM SA ZA RI RH
                            O              N P G I R R S R G S T U IP TL EF VO KE
                            L            A       N M M C E   K A M NU EY  F !R  D
                            M            R C T T T     A A T        T MS  O CI  U
                            N            R R P P E   V N D P   C    E SI  F ET  L                   1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2
                            Y              D E E R   I     E   L    R  S     Y  E 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7

ST BERNADINE OF SIENA CO    2 UNI9200    1 Y N N N N N N N 0 0 0 0  3  3  4  2  2 O N N N N O N N O N N O O N N N N N N O N O O N O P N
                              IBM1620    1 Y N N N N N N N 0 0 0 0

SAINT BONAVENTURE UNIV      2 IBM360-20  1 Y N N Y N N N N          4  3  ;  1  2 O N O N P N N O O O O O N O O P N N P O P O O P O   N
                              IBM1620    2 Y N N N N N N N                        O             O                                   O

SAINT FRANCIS COLLEGE       2 UNI9300    4 Y N Y Y N N N N 0 0 0 0  3  3  0  1  1     P   N P P N P N P O P N O O N N O O P     P O P N
                              IBM1130    2 Y N N Y N N N N 0 1 0 0                O O   O                                   O O

ST JOHN FISHER COLLEGE      2 IBM  1130  1 Y N N Y N N N N 0 1 0 0  3  3  6  1  1 O N N O N N N O O N O O N N O P N N N O N O O N O N N

SAINT JOHNS UNIVERSITY      4 HONW1250   1 Y N Y Y N N N N 5 0 0 0  2  3 16  1  3 O N N O N N N N O N N O N N N N N N N O O O O O O N N

ST LAWRENCE UNIVERSITY      2 IBM1401    1 Y N N Y N N N N 0 2 0 0  2  3  5  1  1 O N O N O O N P O N O O N N P N N N N O P O O N O P N

SUNY-AGRI & TECH-ALFRED     2 IBM360-20  1 Y N Y Y N N N N 2 1 0 0  3  2  9  3  3 O O N O P N N O O O P O P O O P P P O O P O N N O O N
                              IBM1620    1 Y N N Y N N N N 0 0 0 0

SUNY-AGRI & TECH-CANTON     2 IBM360-20  1 Y N N Y N N N N          5  2  5  2  1 O N N N N N N N N N N O N O O N N N O O N N N N O N N

SUNY-AGRI&TECH-FARMNGDAL    4 IBM360-30  1 Y N Y Y N N N N 2 2      3  3  7  1  2 O O O P P P N P P P N O N P O O N N O O O O O O P O P

SUNY AT BINGHAMTON          3 IBM360-40  1 Y N Y Y N Y N N 2 5      3  3 37  1  4 O N N N P N N O O N N O O N O P O P N O N N O P O N N

SUNY AT BUFFALO             6 IBM360-40  1 Y N Y Y Y N N N * *      3  3 39  4  4 O N N O O N N P O P O O P N O O P P P O O O O P O O N

SUNY AT STONY BROOK         3 IBM360-65  1 Y N Y Y N N N N 7 9 1 0  3  3 38  1  4 O O O O O N O O O O O O O O O O P P O O O O O O N P P

SUNY-COLL AT BROCKPORT      3 IBM1401    1 Y N Y Y N N Y N 2 3      3  3 13  2  2 O O O O O P O P O O O O P N O P P P O O P O O P O P N

SUNY-COLLEGE AT BUFFALO     3 IBM360-20  1 Y N N N N N N N          4  3  5  1  1 O N P N N N N O P N P P N N P P N N N P O O O P   O N
                              IBM1130    1 Y N N N N N Y N   1                                                                    O

SUNY-COLL AT CORTLAND       2 UNI9300    1 Y N Y Y N N N N 4        3  3 10  1  2 O P O P P O O P O P O O O O O P P P O O O O O O O O N

SUNY-COLLEGE AT FREDONIA    2 IBM360 20  1 Y N N Y N N N N   2      3  3  7  1  1 O N N N N N N O O N O O N O O O N N N O O O O O O O N
                              CDC  6400  5 N N N N Y N N N 4 1                                                              O
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NAME OF INSTITUTION         E COMPUTER   F  INPUT/OUTPUT    STORAGE AC SA SS SP WS ********************APPLICATIONS*********************
                            N            I P P M P T T O O M D D D DO YN IT ER OC
                            R            N U A A R E E P P A I A R MM SA ZA RI RH
                            O              N P G I R R S R G S T U IP TL EF VO KE
                            L            A       N M M C E   K A M NU EY  F IR  D
                            M            R C T T T     A A T        T MS O  CI  U
                            N            R R P P E   V N D P   C    E SI F  ET  L                   1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2
                            T              D E E R   I     F   L    R  S     Y  E 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7

SUNY-COLLEGE AT GENESEO     2 IBM   1401 1 Y N N Y N N N N   2      3  3 14  2  1 O N P N P P O P O O P O O P P P P P O O O O P P O O N
                              IBM   1130 1 Y N N N N N N N   1                                          O

SUNY-COLLEGE AT OSWEGO      3 IBM   1130 2 Y N N Y N N N N   5      3  3 14  2  2 O O N N N P P N P P P O P P O P P P O O P O O P O O O

SUNY-CORNING COMM COLL      2 IBM360-20  1 Y N N Y N N N N          3  3  5  2  1 O N N N N N N N O N O O O N N P N N O O P O O P P N N
                              NCR100     1 Y N N Y N N N N   2                    O               O   O O O           O O

SUNY-DOWNSTATE MED CNTR     4 IBM360-40  1 Y N Y Y N N N N 6 8      3  3 48  2  4 O O O N N N N N N N N N N N P O N N N P N N N N N N N

SUNY-ERIE CO TECH INST      2 IBM1401    1 Y N Y Y N N N N 4 2 0 0  3  3  4  2  3 O O N O N N N N N N O O N N O O N N O O N P P N O N N

SUNY-FASHION INST OF TEC    3            4 N N N N N N N N          6  5  0  5  5 N N N N N N N N N N N N N N N N N N N N N N N N N N N

SUNY-FULTON-MONT COM COL    2 UNI9200II  2 Y N Y Y N N N N 4        3  3  5  1  2 O O O O N N N O O O O O N O O O N N N O N O O O O N N

SUNY-GENESEE COMM COLL      2 IBM360-20  1 Y N N Y N N N N 0 0 0 0  5  3  2  1  2 N N N P N N N P P P P O P P O P P P O O P N O P P P N

SUNY-JEFFERSON COMM COLL    2 IBM360-20  4 Y N N Y N N N N          6  4  8  1  1 N N N N N N N N N N N N N N O N N N N O N N N N O N N

SUNY-ORANGE CO COMM COLL    2 IBM   1401 1 Y N Y Y N N N N 2 2 0 0  3  3  5  1  2 O N N N N N N N N N N O P O P P P P N O N O O N O N N

SUNY-ROCKLAND COMM COLL     2 HON200120  4 Y N Y Y N N N N 4 0 0 0  6  1  0  4  2 O N N N N N N P N N P O N P P O N N O O P P P N P P P

SUNY-SUFFOLK CO COMM COL    3 IBM1401    1 Y N Y Y Y N N Y 4 3 0 0  3  2  5  2  3 O P P N N N N O P N O O O N P P N N O O P N N N O N N

SUNY-ULSTER CO COMM COLL    2 IBM360-30  4 N N N N N N N N          6  2  0  4  5 N N N N N N N N N N N O N N O O N N O O N N O N O N N

SUNY-UPSTATE MED CENTER     1 IBM1440    1 Y N N Y N N N N 0 3 0 0  2  3 22  2  1 O N N N N N N N P N N P N N N P N N N P N P P N N N N

SYRACUSE UNIVERSITY         6 IBM1460    1 Y N Y Y N N N N 6 2      3  3 30  2  3 O N N   N O N O O O N O N N O P N N N O N O P P O N N
                              IBM1401    2 N N Y Y N N N N 6 2                          O

U S MILITARY ACADEMY        2 GE     225 1 Y N Y Y N N N N 6        2  1  6  3  4 O O O O O N O   N N O O P N O O P P P O O O O P O O O
                              GE     635 2 Y N Y Y N N N N 6 2   1                  O           O     O       O O         O O O   O O O
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NAME OF INSTITUTION          E COMPUTER   F INPUT/OUTPUT    STORAGE AC SA SS SP WS ********************APPLICATIONS*********************
                             N            I P P M P T T O O M D D D DO VN IT EM OC
                             R            N U A A R E E P F A I A R MM SA ZA RI RN
                             O              N P G I R R S R G S T U IP TL EF VO KE
                             L            A       N M M C E   K A M NU EY  F IR  D
                             M            R C T T T     A A T        T MS  O CI  U
                             N            R R P P E   V N D P   C    E SI  F ET  L                   1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2
                             T              O E E R   I     E   L    R  S     Y  E 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7

UNIVERSITY OF ROCHESTER      3 IBM1401    1 Y Y Y Y N N N N 4        4  1 30  2  3 O O N N N O N P 4 N O O P N O P P P N O N P O P O O N
                               IBM360-50  1 Y N N Y Y Y Y N 5 8                                        O O               O

WAGNER COLLEGE               2 HON110     1 Y N Y Y N N N N 4 0 0 0  3  3  5  1  1 P P N N P N N O O N N O N N N O N N N O N N O N O N N


********* NORTH CAROLINA

APPALACHAIN STATE UNIV       3 IBM360-30  1 Y N Y Y N N N N 2 2 0 0  3  3 12  0  2 O N N N P P N N P N O O N O O P N N N O P N O P N O P

DAVIDSON COLLEGE             1 IBM1620-I  2 Y N N N N N N N 0 1 0 0  3  3  1  4  5 O N N N N N N O N P O O O O P O N N O O O O N N O O N

DUKE UNIVERSITY              3 IBM1401    1 Y N Y Y N N N N 4        2  1 15  1  1   N   N N     O N N N O N N N P N N N O N   O O O O N
                               IBM360-75  5 Y N Y Y Y N N N 4 2                    O   O     O O                             O       O

EAST CAROLINA UNIVERSITY     3 IBM360-20  1 Y N N Y N N N N          1  1 11  1  2 O   N N N N N O N N N O N O O N N N O O N   O   O   P
                               IBM360-30  1 Y N N Y N N N Y 2 3 0 0                O O           O                           O O O   O

LENOIR-RHYNE COLLEGE         2 IBM360-20  4 Y N N N N N N N          6  4  0  1  5 N N N N N N N N N N N N N N N N N N N N N N N N N N N

NORTH CAROLINA CENTRAL U     2 IBM1401    1 Y N Y Y N N N N 4        3  3  8  2  2 P N P P N N N P P N P O N P P P N N P O P P O P O N N

NORTH CAROLINA ST UNIV       4 IBM360-40  1 Y N Y Y N N N N 2 8 0 0  3  4  6  2  4 O O P N P P N O O N P O N P P P P P O O P O O O O O O

QUEENS COLLEGE               1            4 N N N N N N N N          6  3  0  5  5 N N N N N N N N N N N O N N N N N N N O O N N N N N N

ST ANDREWS PRESB COLLEGE     1 IBM360-75  5 N N Y N Y N N N 6 4 0 0  3  3  0  1  3 N N N N N N N P N N P O O P P P O O O O O P O P O P N

U OF N C AT CHAPEL HILL      5 RCA70-466  2 Y N Y Y N N N N 6 5 0 1  4  3 55  1  4 O O N N N O N P O N P O P N N P P P N O O O O O O O N

U OF N C AT CHARLOTTE        2 IBM360-30  1 Y N N N N N N N   2      3  3  0  3  2 O N N N N N N N O O O O P N N N P P O O N O O O O O O

U OF N C AT GREENSBORO       3 IBM1401    1 Y N N Y N N N N   1      3  2  9  1  1 O N N N P N N P P O N O N N O N N N N O N O O P O O N

WAKE FOREST UNIVERSITY       2 IBM  1620  2 Y N N N N N N N          5  2  0  5  5 N N N O N N N N N N N N N N N N N N N N N P N N N O O
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NAME OF INSTITUTION       E COMPUTER   F INPUT/OUTPUT    STORAGE AC SA SS SP WS ***********************APPLICATIONS**********************
                          N            I P P M P T T O O M D D D DO YN IT ER OC
                          R            N U A A R E E P P A I A R MM SA ZA RI RH
                          O              N P G I R R S R G S T U IP TL EF VO KE
                          L            A       N M M C E   K A M NU EY  F IR  D
                          M            R C T T T     A A T        T MS O  CI  U
                          N            R R P P E   V N D P   C    E SI F  ET  L                   1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2
                          T              D E E R   I     E   L    R  S     Y  E 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7

********** NORTH DAKOTA

NO DAKOTA ST SCH OF SCI   2 IBM1620    1 Y N N Y N N N N          5  3  3  1  1 P N N N N N N N O N N O N N P P N N O O N N O N O N N

NORTH DAKOTA STATE UNIV   3 IBM360-50  1 Y N Y Y N N N N          3  2  2  3  2 N N P N N N N P   N N O N N P N N N O O P N N N P N N
                            IBM1620    2 Y N N N N N N N                                        O

UNIV OF NORTH DAKOTA      3 IBM360-30  1 Y N Y Y N N Y N 2 4      3  3 24  1  4 N N N N N P N N O N O O N O O P N N O O N N O N P N N


********** OHIO

AIR FORCE INST OF TECH    1 IBM  1620  1 Y N N N N N N N 0 0 0 0  5  2  3  1  1 O P O N N N N P N N O O P N P P P P O O P N P P P P P

BALDWIN-WALLACE COLL      2 UNI  1004  2 Y N N Y N N N N 0 0 0 0  3  5  2  1  1 P P P O P P N P P O P O N O O P N N P O P P P P P P P

BLUFFTON COLLEGE          1 HON        4 Y N Y Y Y N N N 6        6  3  0  4  5 P N N P N P N N N N N O O N N   N N     N N N N N N N
                                                                                                              O     O O

BOWLING GREEN ST UNIV     5 IBM360-    1 Y N Y Y N Y Y N 4 8 0 0  3  3 39  3  4 O N O O N P N P O P O O P O O N P O O O P N O O O P P

CAPITAL UNIVERSITY        2 IBM        4 N N N N N N N N          6  3  0  4  5 N N N N N N N N N O N O O N N N N N O O N N N N O N N

CASE-WESTERN RESERVE UNI  4 GE 415     1 Y N Y Y N N N N 5        4  3 32  3  4 O N N O N O N N O N O O N N N N N N O O N O O P O N N

CENTRAL STATE UNIVERSITY  2 IBM1130    1 Y N N N N N N N   1      3  3  7  1  1 P P P N N P N P P N P O N P O P N N P O P P P P P N N

CLEVELAND STATE UNIV      4 IBM360-40  1 Y N Y Y N N N N 4 9 0 0  3  1 25  5  4 O P P O N N N N N N P O N N O N N N O O N O O N N O N

COLLEGE OF WOOSTER        2 CDC6400    4 Y N Y N Y N N N 6 4   1  4  3  6  1  1 O N N N N N N N O N N O N N N P P N N O P P P N O P N

CUYAHOGA COMM COLL-METRO  4 HONH-1200  1 Y N Y Y N N N N 5 2      4  3 17  2  3 O N P N N N N O O N O O P O O P P P O O P O O O O N N
                            IBM360-25  1 N N N N N N N N   1

CUYAHOGA COMM COL-WESTR   3 HONH-1200  1 Y N Y Y N N N N 5 2      4  3 17  2  3 O N P N N N N O O N O O P O O P P P O O P O O O O N N
                            IBM360-25  1 N N N N N N N N   1
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NAME OF INSTITUTION           E COMPUTER   F INPUT/OUTPUT    STORAGE AC SA SS SP WS *********************APPLICATIONS***********************
                              N            I P P M P T T O O M O D D DO VN IT ER OC
                              R            N U A A R E E P P A I A R MM SA ZA RI RH
                              O              N P G I R R S R G S T U IP TL EF VO KE
                              L            A       N M M C E   K A M NU EY  F IR  D
                              M            R C T T T     A A T        T MS O  CI  U
                              N            R R P P E   V N D P   C    E SI F  ET  L                    1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2
                              T              D E E R   I     E   L    R S     Y  E 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7

DEFIANCE COLLEGE              2 IBM1130    2 Y N N N N N N Y   1      4  1  3  1  2  P N N P P N N N P P N O O P P P N N N O N P P P O P P
                                                                                                           O O             O         O

DENISON UNIVERSITY            2 IBM1130    1 Y N N Y N N N N 0 1 0 0  3  3  5  4  1  O N N N N P N P N N N O P N O N P P N O P O O O P O N

HEIDELBURG COLLEGE            2 BUR        4 Y N Y Y N N N N          6  3  0  4  5  P N P P N P N N N N P P N P P P N N P O P P P P O P P

HIRAM COLLEGE                 2 IBM1130    3 Y N N N N N N N 0 1 0 0  3  3  9  4  1  O N N O N N N N N O N O O N N N N N N O N P P N P N N

JOHN CARROLL UNIVERSITY       2 GE 225     1 Y N Y Y N N N N 4        2  3  0  1  2  N N O O N N N N O N O O O N N N N N O O P N O N O N N

KENT STATE UNIVERSITY         6 HON200     1 Y N Y Y N N N N 5 0 0 0  4  3  13 1  4  O N N N N N N P P N P O N O P P N N O O P N O O N N N

LORAIN CO COMM COLLEGE        2 IBM1440    2 Y N Y Y N N N N 2 2 0 0  3  3  6  2  1  P P N N N N N O O N O O P N O P P P P O P N O N O P N

MARIETTA COLLEGE              2 IBM  1130  1 Y N N N N N N N   1      3  3  8  1  2  O N N O N O N O N N N O N N O O N N P O O O O O P O N

MIAMI UNIVERSITY              4 IBM360 40  1 Y N Y Y Y N Y [illegible] 2 8      3  3  10 1  4  O N N O P P N O O P O O O O O P P P O O O P O O O O P
                                IBM1401    1 Y N N N N N N N   2

MIAMI UNIV-HAMILTON BR        2 IBM360-40  5 N N N N N N N N          6  0  0  1  5  O N N O P P N O O P O O O O O P P P O O O P O O O O P

MOUNT UNION COLLEGE           2 IBM1620    2 Y N N N N N N N          3  3  4  2  2  P N N P N N N N N N O O N O O P P N N O P N O N N N N

MUSKINGUM COLLEGE             2 IBM        1 Y N N Y N N N N 0 1 0 0  3  1  2  1  2  O N N O N N N N O O O O N O O N N N N O O N N O O N N

OBERLIN COLLEGE               2 IBM360-44  2 Y N Y Y N N N N 2 4      3  3  0  3  4  P N P P P P P N O N O O N P P P N N P O P O P P O P P

OHIO NORTHERN UNIVERSITY      2 IBM1620    2 Y N N Y N N N N   2      3  3  3  1  1  O N N O N N N O P N O O N N N O N N O O N N O O O P N

OHIO STATE UNIVERSITY         6 IBM360-50  1 N N N N N N N N 7 8 0 0  4  3  80 2  3  O N N N N N N P P N O P N O P P N P N O N N O O O O N

OHIO UNIVERSITY               5 IBM360-40  2 Y N Y Y N N Y Y 5 8 0 0  0  3  36 3  3  O O N N O P N O O N P O P O O O P P O O P O O O N O N
                                IBM360-20  1 Y N Y Y N N N N 2 0 0 0                 O
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NAME OF INSTITUTION      E COMPUTER  F INPUT/OUTPUT    STORAGE AC SA SS SP WS ********************APPLICATIONS*********************
                         N           I P P M P T T O O M D D D DO YN IT ER OC
                         R           N U A A R E E P P A I A R MM SA ZA RI RH
                         O             N P G I R R S R G S T U IP TL EP VO KE
                         L           A       N M M C E   K A M NU EY  F IR  D
                         M           R C T T T     A A T        T MS  O CI  U
                         N           R R P P E   Y N D P   C    E SI F  ET  L                   1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2
                         T             D E E R   I     E   L    R  S     Y  E 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7

OHIO WESLEYAN UNIVERSITY 2 IBM1401   1 Y N N N N N N N   3      4  3  9  2  3 O N N O N N N N O N O O N N O O N N P O N P N O O O N

OTTERBEIN COLLEGE        2 CDC6400   5 Y N Y Y N N N N16 3      6  3  G  1  4 P P P P P P N P P P P P O N P P P P N O P P P P P N N

SINCLAIR COMM COLLEGE    2 IBM1130   1 Y N N Y N N N N   1      3  3  2  1  2 O P N O N N N N N N N O N O O P N N P O O P N N N N N

UNIVERSITY OF AKRON      5 IBM360 50 1 Y N Y Y N N N N 4 4      3  3  0  1  4 O N N N N N P O P P O O O O P P P P N O N P P O O P P
                           IBM360 25 1 Y N Y Y N N N N 2 1
                                                                              O             O     O O O O           O       O
UNIVERSITY OF CINCINNATI 6 IBM360-65 1 Y N Y Y Y Y Y Y 716 0 0  4  4 64  3  4 O N N P N N N N P N O O P O O O P O N O N O O N O P N

UNIVERSITY OF DAYTON     4 RCA70/46  2 Y N Y Y N N Y N 8 9   1  3  3 74  2  4 O P P N P O P O N N O O P P P P P P N O N P P N O O P

UNIVERSITY OF TOLEDO     4 IBM1401   1 Y N Y Y N N N N 2 4 0 0  4  3  3  4  3 O N N N N N N N O O O O N O P N N N P O N O N O O N N

WALSH COLLEGE            2 IBM       4 N N N N N N N N          6  5  0  5  5 N N N N N N N N N N N N N N N N N N N N N N N N N N N

WESTERN COLL FOR WOMEN   1           4 Y N N N N N N N          6  5  0  5  5 N N N N N N N N N N N N N N O N N N N N N N N N N N N

WILBERFORCE UNIVERSITY   2           4 N N N N N N N N          6  5  0  5  5 N N N N N N N N N N     N   N N N N N   N N N N   N N
                                                                                                  O O   O           O         O
WITTENBURG UNIVERSITY    2 IBM1401   1 Y N N Y N N N N   2      4  3  5  .  1 O N N O N O N N O N O O N N O O N N O O P N N N O N N

WRIGHT STATE UNIVERSITY  3 NCR100    1 Y N N Y N N N N 0 1 0 0  4  3 19  3  3 O N O N P P N P O N N O P O P P N N O O P N O P O P N
                           IBM  1130 1 Y N N Y N N N N 0 1 0 0
XAVIER UNIVERSITY        3 IBM360-30 1 Y N N Y N N N N   4      3  3 15  1  2 N N N N N N N N N N O O P P N P P P N O P N N N O O N

YOUNGSTOWN STATE UNIV    4 IBM360-40 1 Y N Y Y N Y Y N 2 9      3  3 24  1  4 O N N N N N N N O O O O P P O O P P O O N O O N O O N
                           IBM360-40 2 N N N N N N N N
                                                                              O               O O O O     O O     O O   O O   O O
********** OKLAHOMA

BETHANY-NAZARENE COLLEGE 2 IBM  1130 1 Y N N N N N N N   1      4  3  5  4  3 O N N O N N N N O N O O O N O O N N N O O N O N N O N
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NAME OF INSTITUTION        E COMPUTER   F INPUT/OUTPUT    STORAGE AC SA SS SP WS ********************APPLICATIONS********************
                           N            I P P M P T T O O M D D D DO YN IT ER OC
                           R            N U A A R E E P P A I A R MM SA ZA RI RH
                           O              N P G I R R S R G S T U IP TL EF VO KE
                           L            A       N M M C E   K A M NU EY  F IR  D
                           M            R C T T T     A A T        T MS O  CI  U
                           N            R R P P E   V N D P   C     E SI F  ET  L                    1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2
                           T              D E E R   I     E   L    R  S     Y  E 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7

CENTRAL STATE COLLEGE      4 IBM360-30  1 Y N Y Y N Y N N 2 3      4  3 10  1  3 N N N O N N N O O N N O O O N N N N O O N N O P O P N

LANGSTON UNIVERSITY        2 IBM1130    1 Y N N Y N N N N 0 1 0 0  3  1  0  1  1 O P P N P N N P N P P O O P O P N N N O N P P P O P P

NE OKLA AGRIC & MECH COL   2 IBM1620    2 Y N N N N N N N   1      5  3 10  1  5 N N N   N N N   N         N     N N O     N       O N
                             RCA 301    1 Y N Y Y N N N N 6                            O       O   O O O O   O O     O O O   O O O O

NORTHERN OKLA COLLEGE      2 IBM11302A  1 Y N N Y N N N N   1      2  4  0  1  5 O N N P N P P N P N N O N N O P N N P O P N O N N P N

OKLAHOMA CHRISTIAN COLL    2 IBM  1130  2 Y N N Y N N N N 0 1 0 0  2  3  3  1  1 N N N N N N N O O N N O N N N O N N O O P N O N O N N

OKLA COLL OF LIBERL ARTS   1 IBM1130    1 Y N N Y N N N N   1      3  3  3  2  2 N N N N N P N N N N N O N P N N N N O O N O O N O N N

OKLAHOMA STATE UNIV        5 IBM360-50  1 Y N Y Y N N N N 4 8      3  3 60  2  4 P P P O O P O N O N P O N P N P N P O O P N O O O N N

ORAL ROBERTS UNIVERSITY    1 IBM360-40  4 Y N N Y N N N N 8 4 0 0  6  3  0  4  5 P N N N N N N N N N O O N N O O N N P O P N O P N P P

UNIVERSITY OF OKLAHOMA     5 IBM360-40  1 Y N Y Y N N N N 4 8 0 0  3  1 24  3  3 O N O O N O N P P N P     N P P P P     N O O P P O N
                             IBM1401    1 Y N Y Y N N N N 4 2                                          O O           O O     O


********** OREGON
BLUE MOUNTAIN COMM COLL    1 IBM1130    1 N N N N N N N N          3  3  2  2  1 O N N N N N N N N N O O O N P O N N N O P N O N N N N

CENTRAL OREGON COMM COLL   2 IBM1130    1 Y N N Y N N N N 0 1 0 0  4  3  3  2  1 N N N N N N N P N N O O N N P P P P O O N N P P N P P

EASTERN OREGON COLLEGE     2 IBM  1130  4 Y N N Y N N N N   1      6  2 60  2  5 O N N N N N N N N N N O N N N N N N N N N N O O O N N

LEWIS & CLARK COLLEGE      2 IBM1130    1 Y N N Y N N N N   1      3  3  2  3  2 P N N O O P P N N N O O O O O N N N O O O N O N O O N

LINFIELD COLLEGE           2 IBM  1620  2 Y N N N N N N N 0 0 0 6  5  1  0  4  2 O N N N N P N P N N P O O N O N N N O O O P O N O P P

MARYLHURST COLLEGE         1 IBM1130    5 Y N N Y N N N N   1      6  5  0  5  2 P N N O O P P N N N O O O O O N N N O O O N O N O O N
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NAME OF INSTITUTION      E COMPUTER  F  INPUT/OUTPUT   STORAGE A  SA SS SP WS ******************APPLICATIONS******************
                         N           I P P M P T T O O M D D D DO YN IT ER OC
                         R           N U A A R E E P P A I A R MM SA ZA RI RH
                         O             N P G I R R S R G S T U IP TL EF VO KE
                         L           A       N M M C E   K A M NU EY  F IR  C
                         M           R C T T T     A A T        T MS O  CI  U
                         N           R R P P E   V N D P   C    E SI F  ET  L                   1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2
                         T             D F E R   I     E   L    R  S     Y  E 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7

OREGON COLL OF EDUCATION 2 IBM360-30 4 Y N N Y N N N N         6  3 35 4   3 P N O P N N N P O N P O N N O O N N O O N N O N N N N

OREGON STATE UNIVERSITY  5 CDC3300   1 Y N Y Y Y Y N N 4 6 0 0 3  3 29 2   3 O N O O N N N O O N O O P N O P P P P O N O O O O O N

OREGON TECHNICAL INST    2 IBM1130   1 Y N N N N N N N   1     3  2  8 3   2 O O P P P P P P P P P O N P P P N N O O P O O O O O P

PORTLAND STATE UNIV      4 HON   200 1 Y N Y Y N N N N 5       4  3 24 4   2 O P P P N N N N N N N O O N O O N N O O N N O O O N N

REED COLLEGE             2 IBM  1130 2 Y N N Y N N N N 0 1 0 0 3  3 13 1   5 O N N O N N N N O N O O O N P N N N N N P O O P N P P

SOUTHERN OREGON COLLEGE  2 IBM360-30 4 Y N Y Y N N N N 6 4     6  2  0 4   5 N N N P N N N N O N   O N   N N N N O O N N         N
                           IBM1130   1 Y N N Y N N N N                                            O     O                 O O O O
UNIV OF ORE-DENTAL SCH   1 HON200    5 Y N Y Y N N N N 4       1  2 12 1   2 P P N N N P N N P N P P N P P P N N O O N P P N P P N

UNIV OF ORE-MEDICAL SCH  1 IBM  1130 1 Y N N Y N N N N 0 1 0 0 2  3  6 3   1 O N N N N N N N N N N N N N N O N N N O O N P N P P N

UNIVERSITY OF PORTLAND   2 HON1200   2 Y N Y Y N N N N 5 0 0 0 3  2  5 3   2 O N N O N N N N O N O O N N O O N N O O O N O O O O O


********** PENNSYLVANIA

ALBRIGHT COLLEGE         2 IBM1130   1 Y N N N N N N N 0 1 0 0 3  3  3 1   1 P N N N O N N N N N N O N P P P N N N P N N P N P N N

ALLEGHENY COLLEGE        2 IBM1620-1 2 Y N N Y N N N N   2     4  3  4 1   2 N N N N O O N N N N O O N O O O N N O O O O O N O O N

ALLNTWN COL OF ST FRANCS 1           4 N N N N N N N N         6  5  0 5   5 N N N N N N N N N N N O N N N N N N N O N N N N N N N

ALLIANCE COLLEGE         1 IBM1130   1 Y N N Y N N N N 0 6 0 0 5  3  9 2   1 N N N N O O N N N N O O N O O O N N N O P N O N O P N

BAPTIST BIBLE SEMINARY   1 IBM360-30 4 Y N N N N N N N 0 0 0 0 6  3 14 4   5 N N N N N N N N N N N O N N N N N N O O N N O N N N N
                           IBM360-30 4 Y N Y N N N N N
BUCKNELL UNIVERSITY      2 XDSSIGMA7 2 Y N Y Y Y Y N N 2 1 4   3  2 22 2   3 O N N N N O N P N N N O P O P P P P N O P O O P O O P
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NAME OF INSTITUTION      E COMPUTER  F INPUT/OUTPUT    STORAGE AC SA SS SP WS ***********************APPLICATIONS***********************
                         N           I P P M P T T O O M D D D DO YN IT ER OC
                         R           N U A A R E E P P A I A R MM SA ZA RI RH
                         O             N P G I R R S R G S T U IP TL EF VO KE
                         L           A       N M M C E   K A M NU EY  F IR  D
                         M           R C T T T     A A T        T MS O  CI  U
                         M           R R P P E   V N D P   C    E SI F  ET  L                   1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2
                         T             D E E R   I     E   L    R  S     Y  E 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7

BUCKS COUNTY COMM COLL   2 IBM1401   2 Y N N Y N N N N          5  3  5  2  1 P N P N N N N N N N N P N P O P N N P O P N P P P P N

CARNEGIE-MELLON UNIV     3 BURB2500  1 Y N Y Y N N N N 4 1 0 0  4  3 17  4  2 O N N N N N N P N O N O P N O O P P P O O O O P O O P
                           IBM1401   1 Y N Y Y N N N N 4 0 0 0                O                 O   O     O O       O O O O   O O

CHATHAM COLLEGE          1 IBM1401   4 Y N Y Y N N N N 4 0 0 0  6  3  0  3  4   N N N N N N N N N N   N N   N N N N   N   N N     N
                           BURB2500  4 Y N Y Y N N N N 2 4 0 0                O                     O     O         O   O     O O

CHESTNUT HILL COLLEGE    1           4 N N N N N N N N          6  4  0  0  0 N N N N N N N N N N N N N N N N N N N Y N N N N N N N

COLLEGE MISERICORDIA     1 IBM360-20 4 Y Y Y Y N N N N          6  3 29  4  3 O O P P N N N O P O O O N N O O N N O O O O O O O O N

COMM COL OF ALLEGHENY CO 4 IBM360-20 1 Y N N Y N N N N   2      4  3  7  5  2 O N N O N P N N O O O O N O O N N N     O N O N O N N
                           IBM360-30 2 Y N Y Y N N N N 4 2                                                        O O

COMM COL OF BEAVER CO    2 HON200    2 Y N Y Y N N N N 4 1 0 0  3  3  8  1  3 O N N O N N N N O O O O N P O O P P P O P N O O O P N

COMM COL OF DELAWARE CO  2 IBM360-30 4 Y N Y Y N N N N 4 2 0 0  6  4 10  3  5 P P P P N P P P P P P O P N O O P P P O P P P P P P P

DICKINSON COLLEGE        2 IBM1130   2 Y N N N N N N N 0 2 0 0  3  2  1  4  2 O P P N O P N N N N N O N O N O N N P O P P P N O P P

DREXEL INSTITUTE         3 IBM1620   1 Y N Y Y N N N N 4        2  3 16  1  3 N N N N N N N P O N N O N O N N N N O O N O O O O O N

DUQUESNE UNIVERSITY      3 CDC3200   2 Y N Y Y N N N N 4 4 0 0  5  3 19  1  3 O N N N N N N O Y N O O N N O N N N N O N O O O O O N

FRANKLIN & MARSHALL COLL 2 IBM360-20 1 Y N N Y N N N N 0        4  3  4  1  2 O N N N P P N N O N O O N N P N N N O O N P O O O O N
                           IBM1130   1 Y N N Y N N N N 1

GANNON COLLEGE           2 IBM1620   2 Y N N N N N N N          2  3  8  1  3 P N N N N P N O O N N O N N O N N N N O N N N N O N N

GENEVA COLLEGE           2 IBM1130   2 Y N N Y N N N N   1      3  3  2  1  5 P P P N N N N P O N P P N N P P N N O P O N P O O O P

GROVE CITY COLLEGE       2 IBM  1130 1 Y N N Y N N N N          5  2  4  4  1 N N N N N N N N N N N O N N N N N N O O N N O N O O N

GWYNEDD-MERCY COLLEGE    2 IBM1401-G 4 Y N N N N N N N 0 0 0 0  6  2  8  3  2 P P N N N P N P N N O O N N N O N N O O O N O N O O N
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NAME OF INSTITUTION         E COMPUTER   F  INPUT/OUTPUT     STORAGE AC SA SS SP WS *******************APPLICATIONS********************
                            N               I P P M P T T O O M D D D DO YN IT ER OC
                            R               M U A A R E E P P A I A R MM SA ZA RI RH
                            O                 M P G I R R S R G S T U IP TL EF VO KE
                            L               A         N M M C E   K A M NU EY  F IR  O
                            M               R C T T T       A A T        T MS O CI  U                     1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2
                            N               R R P P E   V N D P     C    E SI F ET  L                     0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7
                            T                 D E F R   I     E     L    R  S     Y E 1 2 3 4 5 6 7 8 9
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HARRISBURG AREA COMM COL 2 IBM360-30 2 Y N Y N N N N N 2 2 0 0  3  1  7  2  3 O N O O N P P N N N N O O N O O P P O O P O O N O P P

INDIANA UNIV OF PENN     4 IBM360-30 1 Y N Y Y N N N N 2 4 0 0  3  3 16  1  3 O N N N N O N O O N P O N N P O P P N O O N O P P N N

JEFFERSON MEDICAL COLL   1 IBM360-30 1 Y N Y Y N N N N 4      2  3  2  0  3  3 O O P P N P P P P P P P P P P N P P P P P O O P P P P

JUNIATA COLLEGE          2 IBM  1620 2 Y N N N N N N N          5  1  5  4  5 O N N   N N N N N N N O O O N N N N O O O O O N O N N
                                                                                   O

KEYSTONE JUNIOR COLLEGE  1 IBM360-20 4 Y N N Y N N N N          6  3  0  5  5 N N N N N N N N N N N N N N N N N N N O O N N N N N N

KINGS COLLEGE            2 IBM1620   2 Y N N N N N N N 0 2 0 0  5  3  2  5  2 O N N N N N N O O N N O N N N N N N N O N N O N O P N

LAFAYETTE COLLEGE        2 IBM1130   1 Y Y N N N N N N   1      5  5  1  5  5 P N N N N N N P N N N O N N N N N N N O O N N N N P N

LASALLE COLLEGE          2 IBM1620-1 1 Y N N N N N Y N 0 0 0 0  3  3  3  1  1 P N N O N N N N N N O O N N O P N N N O N O N N O N N

LEHIGH COUNTY COMM COLL  2 IBM1401   1 Y N N N N N N N   2      5  2  0  4  2 O N O N N N N N O N O O N N P N N N O O P O O O O O N

LINCOLN UNIVERSITY       2 IBM1130   2 Y N N Y N N N N 0 1 0 0  5  3  6  1  1 P P N N P N N N P N O O O N O O N N O O O P P O O N N
                                                                                                       O     O O O     O O

LYCOMING COLLEGE         2 IBM  1130 2 Y N N Y N N N N 0 1 0 0  3  3  4  1  2 O N N N N O N P O N O O N O N N N N O O O O O O P O O N

MARYWOOD COLLEGE         2 IBM1130   1 N N N N N N N N          2  3  3  3  1 O N N P N N N N O N O O O N N O O N P O P P P P P N N

MERCYHURST COLLEGE       1 IBM360-30   Y N Y Y N N N N          6  4  0  3  5 N N N N N N N N N O O O N N P O N N N O N N O N O N N

MILLERSVILLE STATE COLL  3 IBM1620   1 Y N N N N N N N 0 1 0 0  7  5 12  4  2 P N N N P N N N O N N O N O O N N N O O N P O P O P N

MORAVIAN COLLEGE         2 IBM  1130 1 Y N N N N N N N          2  3  2  2  1 O N N N N N N N O N O O O N O O N N O O O P P N P P N

MUHLENBERG COLLEGE       2 IBM1130   1 Y N N N N N N N 0 1 0 0  1  3 12  1  1 P N N N N N N N O N O O N N O P N N O O N N N N O N N
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NAME OF INSTITUTION         E COMPUTER    F  INPUT/OUTPUT   STORAGE AC SA SS SP WS *********************APPLICATIONS*********************
                            M             I P P M P T T O O M D D D DO YN IT ER OC
                            R             N U A A R E E P P A I A R MM SA ZA RI RH
                            O               N P G I R R S R G S T U IP TL EF VO KE
                            L             A       N M M C E   K A M NU EY  F IR  O
                            M             R C T T T     A A T        T MS O  CI  U
                            N             R R P P E   V N D P   C    E SI F  ET  L                   1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2
                            I               D E E R   I     E   L    R S      Y  E 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7

NORTHAMPTON COUNTY AREA     2 IBM360-40   2 Y N N Y N N N N 0 3 0 0  3  3  3  3  2 O N N P N P N P P P P O P P N O N P N O N N O N O O P

PENN MILITARY COLLEGE       2 IBM1620-1   1 Y N N Y N N N N   2      2  3  6  0  1 P P P O N N N O O N N O N O P P N N O O P P O P O P N
                              IBM1401         N N N N N N N N

PENNSYLVANIA STATE UNIV     6 IBM360-50   1 Y N Y Y Y Y N N 1013 0 0 2  3 92  4  3 O O O N O O O O O O P O P O O O O O O O O O O P O O O
                              IBM360-25   1 Y N N Y N N N N 0 3 0 0                                      O

PHILADELPHIA COLL BIBLE     1 IBM1401G    4 N N N N N N N N          6  5  0  5  5 N N N N N N N N N N N N N N N N N N N N N N N N N N N

POINT PARK COLLEGE          2 IBM360-30   1 Y Y Y Y N N N N 2 2      3  3  9  4  2 O N N N O O N N O N O O N N O N N N N O N O O O O O N

ROSEMONT COLLEGE            1 IBM1401-G   4 Y N N Y N N N N          6  3  8  4  2 N N N N N N N N N N N O N N O O N N O O N N N N O O N

SAINT FRANCIS COLLEGE       2 IBM1130     2 Y N N Y N N N N   1      3  3  3  1  1 P P P N N P N O O O O O N O O O N N N O O N O N O N N

SAINT JOSEPHS COLLEGE       3 IBM1401     1 Y N N Y N N N N 0 2 0 0  2  3  8  1  2 O N N N N N N N N N N O N O O N N N N O P N O N O N N

SPRING GARDEN COLLEGE       1 UNI   1004  3 Y N Y Y N N N N 2        3  3  8  4  5 O N N O N N N O N N O O O N O N N N N O N P P P O P N

SUSQUEHANNA UNIVERSITY      2 XDSSIGMA7   4 Y N N N N N N N 0 2 0 0  2  4  0  4  3 P N P P P P N P P P P P P P P P P P N P P P P P P P P

TEMPLE UNIVERSITY           6 CDC6400     1 Y N Y Y N N N N 8 2 0 0  3  3 44  3  4 O N O N N N N P O O O O P O N O P P P O P O O O O O P
                              IBM1460     1 Y N Y Y N N N N 4 0 0 0                O   O           O O   O   O

UNIV OF PENNSYLVANIA        5 IBM360-40   1 Y N Y Y N N Y N 6 1 0 0  4  3 43  3  4 O O O O P O N O O O O O P O O O P P N O O O O O O O O
                              IBM360-75   1 Y N Y Y Y Y N N 5 3

UNIVERSITY OF PITTSBURGH    6 IBM360-40   1 Y N Y Y N N N N 4 0 0 0  4  3 44  1  4   N N   P N P P   N     P N N P P P N     P   P     P
                              IBM1401     1 Y N Y Y N N N N 4 8 0 0                O     O         O   O O               O O   O   O O

UNIVERSITY OF SCRANTON      2 IBM   1800  1 Y N Y Y N N N N 2 2      3  3  6  1  2 O P N O N P N O O N O O N N O O N N O O P O O P O P P

VILLA MARIA COLLEGE         1 IBM   1130  2 Y N N Y N N N N   1      3  3  4  1  2 P N P N [illegible] O P O P N O O N N O O N N P O O P P N O P N

VILLANOVA UNIVERSITY        3 IBM360-30   1 Y N Y Y N N N N 3 2 0 0  3  3 19  1  3 O N P P N N N P P N N O N O O P N P N O O P P P O P P
                              IBM360-75   4 Y N Y Y Y Y N N 410 0 0
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NAME OF INSTITUTION         E COMPUTER  F INPUT/OUTPUT    STORAGE AC SA SS SP WS *********************APPLICATIONS********************
                            N           I P P M P T T O O M D D D DO YN IT ER OC
                            R           N U A A R E E P P A I A R MM SA ZA RI RH
                            O             N P G I R R S R G S T U IP TL EF VO KE
                            L           A       N M M C E   K A M NU EY  F IR  D
                            M           R C T T T     A A T        T MS O  CI  U
                            N           R R P P E   V N D P   C    E SI F  ET  L                   1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2
                            T             D E E R   I     E   L    R  S     Y  E 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7

WEST CHESTER STATE COLL     3 IBM360-30 2 Y N Y Y N N N Y 4 3 0 0  3  3  8  1  2 O N N N P N N N O N N O N O O O N N O O N P O P N P P

WILKES COLLEGE              2 IBM360-20 4 N N N N N N N N           6  3  0  0  5 N N N N N N N N O N N O N N O N N N O O N N N N N N N

YORK COLLEGE OF PENN        2 IBM1130   1 Y N N N N N N N   2      4  3  4  3  1 O P O P O N N N O N O O O O O O N N O O P N N N O N N

********** RHODE ISLAND

BROWN UNIVERSITY            3 IBM  1401 1 Y N Y Y N N N N 2 3      4  3 15  1  3 O P O O O P N N O O N O N O O O N N O O N O O N O O N

PROVIDENCE COLLEGE          2 IBM1401   1 Y N Y Y N N N N 4 2      3  3 17  5  3 N N N N N O N O N O O O P P P O P P O O O O O O O O P

RHODE ISLAND COLLEGE        3 IBM360-30 1 Y N N Y N N Y Y   3      2  3 10  4  1 O P P N N P N N O N O O O P O N N P P O P O O P P O N

UNIV OF RHODE ISLAND        3 IBM  1410 1 Y N Y Y N N N N 6 0 0 0  4  3 12  1  3 O P O P P O P O O O P O P O O P P P U O P O O P O O P
                              IBM  7094 4 N N N N N N N N

********** SOUTH CAROLINA

THE CITADEL                 2 IBM  1130 1 Y N N Y N N N N   2      5  3  3  1  2 O N P O N N N O N N O O O O O O N N O O O O O O O O N

CLEMSON UNIVERSITY          3 IBM360-20 1 Y N N N N N N N           3  2 31  1  4     P P N N N O N N   O N N N N N N   O N   O       N
                              IBM360-40 1 Y N Y Y N N N N 3 5 0 0                 O O           O     O O             O     O O O O O
FURMAN UNIVERSITY           2 IBM1130   1 Y N N Y N N N N 0 3 0 0  3  3 11  3  3 N N N N N N N O O N O N N N O N N N O O O P O P O O P

LIMESTONE COLLEGE           1 NCRCEN100 4 Y N N N N N N N   2      1  3  6  [illegible]  2 N N N N N N N N N N N O N N O P N N N O O N P N P N N

NEWBERRY COLLEGE            1 IBM1301   4 Y N N N N N N N           6  2  0  5  5 N N N N N N N N N N N O O N O O N N O O N N N N O N N

PRESBYTERIAN COLLEGE        1 IBM360-20 4 Y N N Y N N N N   2      6  5  7  1  5 P P P P N N N   N N           N N N O O O P P P O P P
                                                                                                O     O O O O O
SOUTH CAROLINA ST COLL      2 IBM1130   1 Y N N Y N N N N   1      1  3  3  2  2 O N N N N N N N N N N O N N N O N N N N N N N N N N N
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NAME OF INSTITUTION          E COMPUTER   F INPUT/OUTPUT    STORAGE AC SA SS SP WS ********************APPLICATIONS**********************
                             N            I P P M P T T O O M D D D DO YN IT ER OC
                             R            N U A A R E E P P A I A R MM SA ZA RI RH
                             O              N P G I R R S R G S T U IP TL EF VO KE
                             L            A       N M M C E   K A M NU EY  F IR  D
                             M            R C T T T     A A T        T MS O  CI  U
                             N            R R P P E   V N D P   C    E SI F  ET  L                   1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2
                             T              D E E R   I     E   L    R  S     Y  E 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7

SPARTANBURG JR COLLEGE       1 NCRCEN100    N N N N N N N N 0 2 0 0  6  2  0  5  1 N N N N N N N N N O O O N N O O N N N O N N N N   N N
                                                                                                                                   0

UNIV OF SOUTH CAROLINA       5 IBM7040    2 Y N Y Y N N Y N 8 2 1 0  3  3 21  1  2 O P N P N P N O O N O O N O O N N N O O N N O O O O N
                               IBM1401    1 Y N Y Y N N Y N 4 0 0 0                                          0 0       0 0     0 0 0 0

WINTHROP COLLEGE             2 IBM1620-1  1 N N N N N N N N   1      2  3  5  2  1 N N N N N N N N O N N O O N O N N N O O N N O N O N N

********** SOUTH DAKOTA

AUGUSTANA COLLEGE            2 IBM 1130   2 Y N N Y N N N N   1      2  3  0  4  2 O N N O N N N N N N N O N N N N N N N O N O O O   N N
                               IBM360-20  1 Y N N Y N N N N                                              0                     0   0

S D SCH OF MINES & TECH      2 IBM1130    1 Y N N Y N N N N 0 2 0 0  3  3  9  4  1 N N N O N N N O O N O O N N N P N N O O O N P O O N N

SOUTH DAKOTA STATE UNIV      3 IBM360-30  1 Y N Y Y N N N Y 2 3 0 0  3  5 15  1  2 O N N O N N N O O N O O N O N P N N O O O O O O N N N

UNIV OF SOUTH DAKOTA         3 IBM360-30  1 Y N Y Y N N N N 2 3      3  3  9  2  2 P P P O N N P N O N O O N N O P N N N O P P O O   N N
                               IBM1620    2 Y N N N N N Y N   1                                      0                     0         0

********** TENNESSEE

AUSTIN PEAY STATE UNIV       2 IBM1401    1 Y N Y Y N N N N 2 3 0 0  3  3  7  1  3 P N N N N N N N P P P O P N O P P P O O P P O P O P N

BELMONT COLLEGE              1 UNI9200    1 Y N N Y N N N N          3  3  5  1  2 O N N O O N N N O N O O N N O N N N N O N N O N O O N

CARSON-NEWMAN COLLEGE        2 UNI 9200   4 N N N N N N N N          6  2  2  5  5 O N N N N N N N N N N O N N O O N N P O N O O N O P N

CHRISTIAN BROTHERS COLL      2 IBM1130    1 Y N N Y N N N N   3      5  2  4  5  5 O N N O N N N N O N N O O N O O N N O O N O O N O O N

COLUMBIA STATE COMM COLL     2 IBM360-25  1 Y N N Y N N N N   2      5  2  5  2  1 O N O N N N N N O N O O N N O P N N N O P N N N O N N

DAVID LIPSCOMB COLLEGE       2 IBM360-50  4 Y N Y Y N N N N 3 0      6  4  0  4  4 N N N O N N N N O N O O N N O N N N N O O N O N O N N

EAST TENNESSEE ST UNIV       3 IBM1401-E  1 Y N Y Y N N Y N 3 2      3  1 14  1  2 O P P O P N N N P O O O N O P O N N O O N P O O O P N
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NAME OF INSTITUTION        E COMPUTER   F  INPUT/OUTPUT     STORAGE  AC SA SS SP WS *********************APPLICATIONS*********************
                           N            I P P M P T T O O N D D D DO YN IT ER OC
                           R            N U A A R E E P P A I A R MM SA ZA RI RH
                           O              N P G I R R S R G S T U IP TL EF VO KE
                           L            A       N M M C E     K A M NU EY  F IR  D
                           M            R C T T T     A A T        T MS O  CI  U
                           N            R R P P E     V N D P    C E SI F  ET  L                    1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2
                           I              D E E R     I     E    L R  S     Y  E 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7

FREED-HARDEMAN COLLEGE     1 IBM   1130 4 Y N N Y N N N N     1     6  4  0  4  5 P N N P N N N N N N N P N N N N N N P P N P P P P P N

KNOXVILLE COLLEGE          1 IBM1130    1 Y N N N N N N N 0 1 0 0   4  1  4  2  1 N N N P N N N N N N N O O N N P N N N O N N P N O N N

MEMPHIS STATE UNIVERSITY 5 IBM   1410 1 Y N Y Y N N N N 4 2       4  3 13  4  2 O N O O P N N N N O O O N O O N N N O O N O O O O N N

MIDDLE TENN STATE UNIV     3 HON1250    2 Y N Y Y N N Y N 4 2       3  2  8  2  1 O N O O N N P O O O O O O O O O N N O O O O O O O O O

MILLIGAN COLLEGE           1            4 N N N N N N N N           6  5  0  5  5 N N N N N N N N N N N N N N N N N N N N N N N N N N N

SOUTHERN COL OF OPTOMTRY 1 IBM   1130 1 Y N N Y N N Y N 0 3 0 0   3  2  3  1  1 O N N O N N O N O N N O N O N O N N O O O P O N O P O

TENN TECHNOLOGICAL UNIV    3 IBM1401    1 Y N N Y N N N N 0 4 0 0   2  3  6  4  1 O N N P P N N N P O N O N O O N P P O O P O O P P N N

TUSCULUM COLLEGE           1 BUR        4 Y N Y Y N N N N           6  2  0  4  5 N N N N N N N N N N N O N N N N N N N O N N N N O N N

UNIV OF TENN-CHATTANOOGA 2 IBM   1401 1 Y N Y Y N N N N 2 2 0 0   3  3  7  1  1 O P P N N N N N N O O O N N P N N N O O N P O N O N N

UNIV OF TENN-KNOXVILLE     6 IBM360-40 2 Y N Y Y N N Y N 4 3       4  3 10  1  3 O O O O O O N O O N O O P O O P P P O O P O O O O O N

VANDERBILT UNIVERSITY      3 IBM   7072 2 N N Y N N N N N 7         2  3 11  4  2 N N N N N P N P N N N   N   N N N N N   N N N P     N
                             IBM   1401 2 Y N Y Y N N N N 2                                               O   O           O         O O

********* TEXAS

ABILENE CHRISTIAN COLL     2 IBM1401-E 1 Y N Y Y N N N Y 2 2       2  3 13  1  2 O N O O N N N N O N O O N N O N N N O O N N O N O N N

AMARILLO COLLEGE           2 UNI   9300 1 Y N Y Y N N N N 4 2       2  3  8  2  2 P P P N N P P P P P O O P O O O P P O O P P O P O P P

ANGELINA COLLEGE           1 NCRCEN100 1 N N N N N N N N 0 2 0 0   5  2  4  1  1 P P P P N N N P P N N O O P P O N N O O N N N N N N N

ANGELO STATE COLLEGE       2 IBM   1620 1 Y N N N N N N N 0 0 0 0   3  3  2  1  2 O P P O O P P N P P O O P P P P P P O O P N P O O P N
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NAME OF INSTITUTION         E COMPUTER    F  INPUT/OUTPUT   STORAGE AC SA SS SP WS ********************APPLICATIONS*********************
                            N             I P P M P T T O O M D D D DO YN IT ER OC
                            R             N U A A R E E P P A I A R MM SA ZA RI RH
                            O               N P G I R R S R G S T U IP TL EF VO KE
                            L             A       N M M C E   K A M NU EY  F IR  D
                            M             R C T T T     A A T         T MS O  CI  U
                            N             R R P P E   V N D P   C    E SI F  ET  L                   1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2
                            T               D E E R   1     E   L    B S      Y  E 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7

AUSTIN COLLEGE              2 IBM1130-2   2 Y N N Y N N N N 0 1 0 0  3  3  3  1  5 O N N N N N N N N N O O N N P N N N P O P O O N O O N

BAYLOR UNIVERSITY           3 HON  1250   1 Y N Y Y N N N N 4 0 0 0  3  3 21  3  3 P P P P P P P P P O O O P P P P P P P O P P O P O O P
                              IBM  1620   2 Y N N N N N N N 0 0 0 0

DALLAS BAPTIST COLLEGE      2 IBM360-30   4 Y N Y Y Y N Y Y 4 2 0 0  1  3  2  2  5 P P N P N N N N N N O O N N O N N N N O N P P N P N N

DELMAR COLLEGE              2 IBM360-40   1 Y N Y Y N N N N 2 3      3  1  7  1  1 N N N N N N N N N N O O P O O P P P P O P O O P O N N
                              IBM1401     2 Y N N N N N N N   3                                          O

EAST TEXAS STATE UNIV       3 IBM360-40   1 Y N Y Y N N Y N 2 4 0 0  3  3 19  3  3 O P P P N N N P P P P O P P N N P P O O P P O P O P N

GALVESTON COLLEGE           1 IBM360-40   4 Y N N Y N N N N 4 3      6  3  0  2  5 N N N N N N N N N N N O O N O P P P P O P N P N P N N

HARDIN-SIMMONS UNIV         2 IBM1130     1 Y N N Y N N N N   3      3  3  8  4  1 P N N P N N N N O N P O N P O O N N P O P N O N P N N

HOWARD COUNTY JR COLL       2 IBM1401     2 Y N N Y N N N N   2      5  3 10  1  1 O N N N N N N N N N N O N N O P N N N O N N O N N N N

LAMAR STATE COLL OF TECH    4 CDC3300     2 Y N N Y N N N N   3      3  3 14  2  2 P N N O N P N N N N O O P N O O N N O O N P O N O O N

LETOURNEAU COLLEGE          1 IBM1130     1 Y N N Y N N N N   1      2  3  3  3  1 O N N O N N P P O N P O N O N P N N O O P P P P O P N

MCMURRY COLLEGE             2 IBM1130     1 Y N N Y N N N N 0 1 0 0  3  3  4  4  2 N N N N N N N N O N O O O N O O N N O O N N N N O N N

MIDWESTERN UNIVERSITY       2 IBM1401     2 Y N N Y Y N Y N 0 4 0 0  2  3  3  2  2 P N N N N N N N N N N O P N N N P P O O N N N N O N N

NORTH TEXAS STATE UNIV      5 IBM  1401   1 Y N Y Y N N Y N 2 2 0 0  4  3  8  2  3 O O P O P P P N O P N O P O P P P P O O O N O O O O N

ODESSA COLLEGE              2 IBM360-20   1 Y N N Y N N N N          5  3  9  1  1 N N N O N N N N N N N O N N O N N N   O N N   N   N N
                                                                                                                       O O     O   O

OURLADY OF THE LAKE COLL    2 IBM1401     5 Y N N Y N N N N 0 2 0 0  6  3 10  1  3 N N N N N N N N O N N O N N O O N N N O N N O N N N N

PAN AMERICAN COLLEGE        2 IBM1130     1 Y N N N N N N N   1      3  3  7  4  1 O N O N N N N N N P O O N O O N N N O O N N O O O O N
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NAME OF INSTITUTION          E COMPUTER    F  INPUT/OUTPUT   STORAGE AC SA SS SP WS **********************APPLICATIONS**********************
                             N             I P P M P T T O O M D D D DO VN IT ER OC
                             R             N U A A R E E P P A I A R MM SA ZA RI RH
                             O               N P G I R R S R G S T U IP TL EF VO KE
                             L             A       N M M C E   K A M NU EY  F IR  D
                             M             R C T T T     A A T         T MS O  GI  U
                             N             R R P P E   V M D P   C     E SI F  ET  L                   1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2
                             T               D E E R   I     E   L     R  S     Y  E 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7

PRAIRIE VIEW A & M COLL      2 IBM1401     1 Y N Y Y N N N N 4 2 0 0  2  3 24  2  3 O O P P P P P P O P O O O P O P N N O O P P P P P P P

RICE UNIVERSITY              2 BUR5500     1 Y N Y Y Y N N N 6 4      3  1 23  1  4 O N N N N O N O N N O O N N N N N N O O N O N N O N N

ST MARYS UNI SAN ANTONIO     2 IBM1401     1 Y N N Y N N N N   2      3  2  7  1  3 O N N N N N N N O N N O N O N P N N O O P P O N O N N
                               IBM1620     2 N N N N N N N N

SAN ANTONIO COLLEGE          4 IBM360-50   1 Y N Y Y N N N N 4 8      4  3 12  1  3 O N N N N P N P P P P O P P O O P P P O P N O N O P N

SOUTH PLAINS COLLEGE         2 IBM1401     1 Y N N Y Y N N N 0 2 0 0  3  3  2  1  1 O N N O N N N O O N N O N P N N N N P O N N O N P N N

SOUTH TEXAS COLLEGE          2 HON     200 1 Y N Y Y N N Y N 4        0  3  6  5  1 O P P P N N N P O P P O P P O P N N O O P O O N P O N

SOUTHERN METHODIST UNIV      3 HON    1251   Y N Y Y N N Y N 3 3      2  3 19  1  3 O P P N P P P N P O P O P N P P P P P O P P P P P O P
                                         I

SOUTHWEST TEXAS ST UNIV      4 IBM360-20   1 Y N Y Y N N N N 4        2  3  9  2  3 O N O O N P P N N N O O O O P P N N N O N O O P O P N

STEPHEN F AUSTIN ST COLL     3 IBM    1401 1 Y N Y Y N N Y N 2 2      3  3 16  1  2 O O O O N N N N O N O O N O O N N N O O N N O O O O N

TARLETON STATE COLLEGE       2 IBM1401     1 Y N N Y N N N N          2  3  6  2  2 N N N N N N N N N N N O N O N N N N O O N N O P O N N

TARRANT COUNTY JR COLL       3 RCA7035     1 Y N Y Y N N N N 4 2      3  3 16  2  4 O O O O N P P O O N O O P O O O P P O O P O O O O P N
                               IBM1401     2 Y N Y Y N N N N 2 2                    O O O O       O O   O O   O O O     O O   O O O O

TEMPLE JUNIOR COLLEGE        2 IBM1401     1 Y N N Y N N N N 0 1      5  3  7  2  1 N N N N N N N N N N N O P P N N N N N O P N P N O N N

TEXAS A & I UNIVERSITY       3 IBM360-40   1 Y N Y Y N N N N 2 2 0 0  3  3  5  1  2 O N N N N N N P P     O P O O P P P O O O N O P O O N
                               IBM1620     2 Y N N N N N N N 0 0 0 0                                  O O

TEXAS A & M UNIVERSITY       4 IBM360-65   2 Y N Y Y N N N N 6 14     3  5 76  1  4 O N N N N N N O O N N O P O N O P P N O O O O O O O O
                               IBM1401     2 Y N Y Y N N Y N 2                      O                     O   O           O O

TEXAS CHRISTIAN UNIV         3 IBM1401     2 Y N Y Y Y N N N 4 2      3  3 15  1  2 P P P P P N N P P P N O N N P P P P P O P P O O N O N
                               IBM360-20   1 Y N N Y N N N N                                              O

TEXAS SOUTHERN UNIV          2 IBM1401     1 Y N Y Y N N N N 4 2 0 0  3  3  9  1  2 P N P P N N N N N N N O N N P N N N P O P N O N O N N
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NAME OF INSTITUTION      E COMPUTER  F INPUT/OUTPUT    STORAGE AC SA SS SP WS ********************APPLICATIONS*********************
                         N           I P P M P T T O O M D D D DO YN IT ER OC
                         R           N U A A R E E P P A I A R MM SA ZA RI RH
                         O             M P G I R R S R G S T U IP TL EF VO KE
                         L           A       N M M C E   K A M NU EY  F IR  D
                         M           R C T T T     A A T        T MS O  CI  U                   1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2
                         N           R R P P E   V N D P   C    E SI F  ET  L
                         T             D E E R   I     E   L    R  S     Y  E 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7

TEXAS TECHNOLOGICAL COLL 5 IBM1401   3 Y N Y Y N N N N 6 0 0 0  3  3 72  5  4 O N P N P N N P P O O O P O P P P P N O P P P P O O N
                           IBM360-50 1 Y N Y Y N N Y N 3 8 0 0

TEXAS WOMANS UNIVERSITY  3 IBM1401   1 Y N Y Y N N N Y 3 2      4  3  5  1  1 O P P O O P N P O P P O N N O O N N P   N N P P   P P
                           IBM1620   2 N N N N N N N N 0 0                                                          O         O

UNIVERSITY OF DALLAS     2 IBM1130   1 Y N N Y N N N N 2        3  3  8  1  3 O N N O O N N P O N O O N N O O N N N O O O O O O O N

UNIVERSITY OF HOUSTON    6 XDSSIGMA5 1 Y N Y Y N N Y N 5 4 0 0  3  3 32  1  4 O N N N N P N O O P P   P     O P P O   N N   O   O N
                           IBM1401   1 Y N Y Y N N Y N 4 0 0 0                O             O       O   O O O     O O     O   O O

UNIV OF TEX AT ARLINGTON 4 IBM1401   2 Y N Y Y N N N N 4 2      4  1 10  1  3 O P O N N N P P O N O O O O O O P P O O O N O O O N N

UNIV OF TEXAS AT AUSTIN  6 IBM360-50 1 Y N Y Y N Y N Y 8 10 0 0 4  3 65  1  3 N N N N N P N P P N P O O N N O O O O O P N O O O O N
                           IBM360-20 1 Y N Y Y N N N N 2 0 0 0                                      O O     O O O O O     O O O O

UNIV OF TEXAS AT EL PASO 4 IBM360-25 1 Y N Y Y N N Y N 4 1 0 0  4  3 13  1  3 P P P N N N N P P O P O N N P P N P O O P P P P O P P

U OF TEX-DENT BR-HOUSTON 1 IBM360-50 5 Y N Y Y Y Y Y Y 2 9 0 0  6  1  3  4  4 O O N N N N N N N N N O P N N O P P     N N N N     N
                           IBM7094   5 Y N Y Y N N N N 13 1 0 0                                                   O O         O O

WEST TEXAS STATE UNIV    3 IBM360-40 1 Y N Y Y N Y N N 4 5      3  3 29  5  4 P N N N P P N P P P N O P O P C P P O O O P O N O P N

WHARTON COUNTY JR COLL   2 IBM1130   1 Y N N Y N N N N 1        5  1  3  1  1 N N N N N N N N N N N N N N N N N N N O P N O N O N N


********** UTAH

BRIGHAM YOUNG UNIVERSITY 5 IBM360-50 1 Y N Y Y N N Y N 6 8 0 0  3  3 20  4  2 O O O N N N O N N O O O P O N P P P O O P O O P O O N

UNIVERSITY OF UTAH       5 IBM360-30 1 Y Y Y Y N N N N 2 5      4  1  5  4  2 O N O N N N N   O O   O P O O O P P O O P N O O O P N
                           UNI1108   2 Y N Y Y N N N N                                      O     O

UTAH STATE UNIVERSITY    3 IBM360-44 1 N N N N N N N N 2 5      3  5 23  1  4 N N N N N N N O N N O O N O N N N N N O N N O O N N N

WEBER STATE COLLEGE      4 IBM360-30 2 N N N N N N N N 4 3 0 0  3  3  4  2  4 P N N O N N N N N N O O P O O O N N N O O N O O O O N

WESTMINSTER COLLEGE      1           4 Y N N N N N N N          6  3  0  5  5 N N N N N N N N N N N O N N O N N N N O N N N N N N N
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NAME OF INSTITUTION        E COMPUTER   F INPUT/OUTPUT    STORAGE AC SA SS SP WS ********************APPLICATIONS********************
                           H            I P P N P T T O O N D D D DO YN IT ER OC
                           R            N U A A R E E P P A I A R MM SA ZA RI RH
                           O              N P G I R R S R G S T U IP TL EF VO KE
                           L            A       N M M C E   K A M MU EY  F IR  D
                           M            R C T T T     A A T        T MS Q  CI  U
                           N            R R P P E   V N D P   C    E SI F  ET  L                   1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2
                           T              O E E R   I     E   L    R S      Y  E 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7

********** VERMONT

CASTLETON STATE COLLEGE    2 IBM1130    1 Y N N Y N N N N   1      1  3  7  2  1 O N N P P N N O N P O O N N N N N N O O N P P N O P N

MIDDLEBURY COLLEGE         2 IBM360     1 N N N N N N N N 0 2 0 0  2  3  6  2  1 O N N P O N N O O N O O O N O P P P P O P N O O N N N

NORWICH UNIVERSITY         2 IBM1620    1 Y N N Y N N N N           3  3  3  1  3 O N N O O N N N O N O O N O N N N N N N N N N N N N N

UNIVERSITY OF VERMONT      3 IBM360-44  1 Y N N Y N N N N 3 4 0 0  3  3 19  3  3 O N N N N N N P O N P O P P P P P P P O P O O P O O N
                             IBM1130    2 N N N N N N N N 0 1 0 0

********** VIRGINIA

AVERETT COLLEGE            1 IBM360-20  4 Y N N Y N N N N 0 0 0 0  1  2  0  4  5 N N N N N N N N O N N O N N N N N N N O N N O N O N O

BRIDGEWATER COLLEGE        1 IBM  1130  2 Y N N Y N N N N 0 1 0 0  5  3  4  1  2 O N N O N N N O N N N O N N O O N N O O O N O N O O N

COLL OF WILLIAM & MARY     2 IBM360-50  1 Y N Y Y N N N N 2 5 0 0  3  3 30  4  4 O N N O P N N N O N N O N N O P N N N O O O O N O P P

EASTERN MENNONITE COLL     1 IBM1130    1 Y N N N N N N N 0 1 0 0  3  3  6  3  3 N N N N N N N N N N N O N N N N N N N O N N O N O N Y

EMORY & HENRY COLLEGE      1 IBM360-40  4 Y N N Y N N N N 4 5 0 0  6  3  0  4  5 N N N N N [illegible] N N N N N O N N N N N N O O N N N N N N N

LYNCHBURG COLLEGE          2 IBM1401    5 Y N Y Y N N Y N 2 2 0 0  3  3  9  3  3 O N N O N O O N N N O O N N O O N N N O O O O [illegible] O N N

MADISON COLLEGE            2 IBM  1130  1 Y N N Y N N N N 0 2 0 0  3  3  7  1  2 P N P O P P N N P N P O N N O P P P N O P P P P P P P

MARY BALDWIN COLLEGE       1 IBM  1130  4 Y N N N N N N N   1      3  3  4  1  5 O N O O N N N P P P O P P N O P N N N P P P N N P P Y

OLD DOMINION COLLEGE       3 IBM1401    1 Y N Y Y N N N N 2 3 0 0  3  3  0  1  2 O P P N N N N N N N N O N N O O N N P O P N P P N N N

RANDOLPH-MACON COLLEGE     [illegible] IBM1800    2 Y N N Y N N N N 0 3 0 0  3  3  8  1  2 O N N N N N N N N N O O N N N N N N N O N N O P O O N
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NAME OF INSTITUTION         E COMPUTER   F  INPUT/OUTPUT   STORAGE AC SA SS SP WS ********************APPLICATIONS*********************
                            N            I P P M P T T O O M D D D DO YN IT ER OC
                            R            N U A A R E E P P A I A R MM SA ZA RI RH
                            O              N P G I R R S R G S T U IP TL EF VO KE
                            L            A       N N N C E   K A M NU EY  F IR  D
                            M            R C T T T     A A T        T MS O  CI  U
                            N            R R P P E   V N D P   C    E SI F  ET  L                     1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2
                            T              D E F R   I     E   L    R S      Y  E 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7

RANDOLPH-MACN WOMENS COL    1 IBM1401    1 Y N Y Y N N N N 2 2       3  3  9  3  3 0 N P 0 N P N N N N 0 0 N N N 0 N N N 0 0 0 0 0 0 0 N

ROANOKE COLLEGE             2 IBM1401    5 Y N Y Y N N N N 1 2       6  3  7  5  5 0 N N N N N N N N N 0 0 N N 0 0 N N 0 0 N 0 0 0 0 N 0

SWEET BRIAR                 1 IBM1401    5 Y N Y Y N N N N 2 2       6  3 10  3  3 0 N N 0 N P 0 N N N 0 [illegible] N N 0 N N 0 0 0 0 0 0 0 0 N

THOMAS NELSON COMM COLLE    2 IBM1130    1 Y N N Y N N N N   1       5  3  7  2  3 0 N N N N N N N 0 N N 0 N N 0 P N N 0 0 0 N N 0 0 N N

UNIVERSITY OF VIRGINIA      3 IBM1410    1 Y N Y Y N N Y N 4 2       2  3 21  1  3 0 N N N N N N 0 N 0 0 0 N N 0 0 N N N 0 N N N N N N N
                              BUR5500    2 Y N Y Y N N N N

VA. COMMONWEALTH UNIV       4 HON    200 2 Y N Y Y N N Y N 4 0 0 0   3  3 15  1  3 0 N N 0 N N N P 0 N 0 0 N N P 0 N N 0 0 0 0 0 P 0 0 N

VIRGINIA MILITARY INST      2 IBM1620    2 Y N N Y N N N N   2       3  3  9  3  2 0 N N N N P N 0 0 N N 0 N 0 0 0 N N 0 0 P 0 0 0 0 N N

VA ST COLL-NORFOLK          2 IBM11724   1 Y N N N N N N N           2  3  4  1  2 P N N N N N N N 0 N N 0 0 0 N N N N N 0 N N N N N N N

VA ST COLL-PETERSBURG       2 IBM360-30  1 N N Y N N N N N 2 2       3  3 11  1  3 0 0 N N 0 0 N 0 0 N 0 0 0 N 0 0 N N 0 0 0 J 0 N 0 0 N

WASHINGTON & LEE UNIV       2 IBM   1130 1 Y N N Y N N N N   2       3  3  4  1  1 N N N N N 0 N 0 N N N 0 N N N N N N N 0 N N N N 0 N N


********** WASHINGTON
CENTRAL WASH ST COLLEGE     3 IBM360-20  1 Y N N Y N N N N 0 0 0 0   2  3 13  3  3 N N N N P N N P 0 0 0 0 N 0 N N N N 0 0 N N 0 0 0 0 N

COLUMBIA BASIN COLLEGE      2 IBM1620    1 N N N N N N N N   2       5  1  5  4  5 0 N N N N N N N N 0 0 0 N 0 0 N N N 0 0 0 N 0 0 0 0 0

EASTERN WASH ST COLLEGE     3 RCA7035    1 Y N Y Y N N N N 2 3       4  1 17  1  3 P P P P P P N P P N N 0 N P P 0 P P 0 0 N P 0 P 0 N P

FORT WRIGHT COLLEGE         2 IBM1130    1 Y Y Y Y N N N N 2 3 0 0   3  3 16  1  4 0 N 0 0 N 0 N N N 0 0 0 P 0 0 0 P P 0 0 P 0 0 0 P P P

GONZAGA UNIVERSITY          2 IBM1130    1 Y Y Y Y N N N N 2 3 0 0   3  3 23  1  4 0 P 0 0 P 0 P N 0 0 0 0 P 0 0 P P P 0 0 P 0 0 0 0 P P
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NAME OF INSTITUTION         E COMPUTER  F INPUT/OUTPUT    STORAGE AVF SA SS SP WS ************************APPLICATIONS************************
                            N           I P P M P T T O O M D D D DO YN IT ER OC
                            R           N U A A R E E P P A I A R MM SA ZA RI RH
                            O             N P G I R R S R G S T U IP TL EF VO KE
                            L           A       N M M C E   K A M NU EY  F IR  D
                            M           R C T T T     A A T        T MS O  CI  U
                            N           R R P P E   V N D P   C    E SI F  ET  L                   1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2
                            T             D E E R   I     E   L    R  S     Y  E 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7

HIGHLINE COMMUNITY COLL     3 IBM360-40 1 Y N Y Y N N N N 2 2      3  2  8  2  3 O N N N N N N N N O O O N P O O N N O O P N O O O N N

PACIFIC LUTHERAN UNIV       2 IBM1401   1 Y N N Y N N N N 0 0 0 0  3  2  8  1  3 O N N O O N N N O N O O N N N N N N O O O O O O O O N

SEATTLE COMMUNITY COLL      5 IBM360-30 1 Y N Y Y N N N N 4 2 0 0  2  5  5  1  3 P N N N N P N N N N O O N P O O N N P O N N O P P P P

SEATTLE PACIFIC COLLEGE     2 IBM1401   4 Y N N Y N N N N 6 0 0 0  6  1  0  1  5 N N N N N N N N N N N O N N   P N N P   P N     P P V
                              IBM709    4 Y N Y Y N N N N16 0 0 0                                      O     O         O     O O
SEATTLE UNIVERSITY          2 IBM1620   2 Y N N Y N N N N   2      2  3  7  2  2 O N N N N N N P N O O O N O N N N N O O N N O N O N N

UNIV OF PUGET SOUND         2 UNI  9200 1 Y N N N N N N N 0 0 0 0  1  3  8  2  2 O N N O N P N N N N N O O N O N N N N O O O O O O O O

UNIVERSITY OF WASHINGTON    6 IBM1401   1 Y N Y Y N N N N 4 0 0 0  4  4  0  4  3 P P O O N N N P P N O O P O P P P P O O P P P P O
                              BUR5500   1 Y N Y Y N N N N 810 0 0                                                                   O O
WASHINGTON STATE UNIV       4 IBM360-67 2 Y N Y Y Y N N N 5 2 1    3  3 55  4  4   N N N P N N O O N O O O N O P O O O O N N O O O O N
                              IBM360-20 2 N N N N N N N N 2                      O             O O   O O
WESTERN WASH ST COLLEGE     3 IBM360-40 2 Y N Y Y N N N N 2 8      3  1 16  4  3 O N   N N P N N P O     P   P P P P P   N   O N   N N
                              IMM360-20 1 Y N Y N N N Y N 2                      O   O             O O O   O           O   O O   O
WHITMAN COLLEGE             2 IBM1620   2 Y N N N N N N N   1      2  2  5  1  1 O N N N N N N N N O O N N N N N N N O N N P N N P N

WHITWORTH COLLEGE           2 IBM360-67 4 Y N N Y N N N N 6 1 1 0  6  4  0  3  4 P N N N P P N N N P N O N N P P N N N O N N P N O P N


********** WEST VIRGINIA

FAIRMONT STATE COLLEGE      2 IBM1130   1 Y N N N N N N N   1      3  3  8  3  3 O N P N N N N P N N N O N N O P N N O O P O O O O P N

MARSHALL UNIVERSITY         3 IBM1620   1 Y N N Y N N N N 0 4 0 0  3  3 11  1  3 O N N N P N P O O N O O N P N P N N P O P O O P O N N

MORRIS HARVEY COLLEGE       2 IBM360-20 1 N N N N N N N N   2      2  3  5  2  1 N N N N N N N N O N O O N N O P N N O O N N O N O N N

WEST VA INST OF TECH        2 IBM1130   2 Y N N Y N N N N 0 1 0 0  3  3  7  4  3 O P N O P P N O O O O O N O N N N N O O N P O O O P P
                              IBM360-25 1 N N N N N N N N 0 2 0 0
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NAME OF INSTITUTION         E COMPUTER   F INPUT/OUTPUT    STORAGE AC SA SS SP WS ********************APPLICATIONS********************
                            N            I P P M P T T O O M O D D DO YN IT ER OC
                            R            N U A A R E E P P A I A R MM SA ZA RI RH
                            O              N P G I R R S R G S T U IP TL EF VO KE
                            L            A   .   N M M C E   K A M NU EY  F IR  D
                            M            R C T T T     A A T        T MS O  CI  U
                            N            R R P P E   V N D P   C    E SI F  ET  L                    1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2
                            T              O E E R   I     E   L    R  S     Y  E 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7

WEST VIRGINIA UNIVERSITY    5 IBM360-75  2 Y N Y Y N Y N N 3 8 0 2  3  1 41  2  3 0 P P P P 0 P P P 0 0 0 N 0 0 P P P 0 0 N 0 [illegible] 0 0 P
                              IBM1130    2 Y N N Y Y N N N 0 1 0 0

WHEELING COLLEGE            1 IBM        5 N N N N N N N N          6  3  0  5  5 P N N N N N N N N N 0 0 N N 0 N N N N 0 N N N N N N N


********* WISCONSIN

ALVERNO COLLEGE             1 IBM1401    4 N N Y Y N N N N          6  1  2  0  5 N N N N N N N N N N N 0 N N N N N N N 0 N N N N 0 N N
                              IBM360-40  4 Y N N Y N N N N                                              0

CARROLL COLLEGE             2 IBM1130    1 Y N N Y N N N N 0 1 0 0  5  1  4  2  2 P N N N N N N 0 N N N 0 N N P P P P P P P N 0 P N 0 P

CONCORDIA COLLEGE           1 IBM360-20  4 Y N N Y N N N N 0 2 0 0  6  2  2  5  5 0 P P 0 N P N 0 0 N 0 0 0 N 0 P N N P 0 0 0 0 0 0 P P

DOMINICAN COLLEGE           1            4 N N N N N N N N          6  5  0  5  5 N N N N N N N N N N N 0 N N N N N N N 0 N N 0 N 0 0 N

LAKELAND COLLEGE            1 NCR        4 N N Y N N N N N          1  2  0  4  2 N N N N N N N N N N N 0 0 N 0 0 N N 0 0 N N N N 0 N N

MARQUETTE UNIVERSITY        4 IBM360-30  1 Y N Y Y N N N N   2 6    4  3 15  4  3 0 N N P N N N N 0 N N 0 N N 0 P P P 0 0 N   0 N N P N

MILWAUKEE INST OF TECH      4 IBM360-40  1 Y N Y Y N N N N   4 4    4  3 12  1  3 0 P 0 P N 0 N P P P P 0 P P 0 P P P 0 0 P 0 0 P N P N

MILWAUKEE SCHOOL OF ENGR    2 BUR5500    4 Y N Y Y N N N N   2      3  3  0  1  5 N N N N N N N N N 0 N 0 N N N N N N 0 0 N N N N 0 N N

MOUNT ST PAUL COLLEGE       1 SBC        4 N N N N N N N N          6  1  0  5  5 N N N N N N N 0 N N N N N N N N N N N 0 N N N N N N N

RIPON COLLEGE               2 IBM1130    4 Y N N N N N N N     1    6  3  5  1  1 P N P P N P P N P C P 0 N N P N N N 0 0 P P P P P P N
                              IBM360-40  5 N Y N N Y N N N   4 4

ST. NORBERT COLLEGE         2 IBM1130    2 Y N N Y N N N N 0 1 0 0  3  3  3  4  1 0 P P 0 N P N N N 0 0 0 N N 0 0 N N 0 0 N 0 0 0 0 N N

STOUT STATE UNIVERSITY      2 IBM        1 Y N N Y N N Y N 0 2 0 0  3  2  8  1  1 0 P N N P N N N 0 0 0 0 N N N 0 N N P 0 P N 0 0 0 P P

VITERBO COLLEGE             1 IBM360-20  4 Y N N Y N N N N 0 0 0 0  6  3 11  1  5 0 N N N N N N 0 0 N 0 0 N N 0 0 N N 0 0 0 N 0 0 0 0 N
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NAME OF INSTITUTION       E COMPUTER   F  INPUT/OUTPUT    STORAGE AC SA SS SP WS ********************APPLICATIONS********************
                          N              I P P M P T T O O M D D D DO YB IT ER OC
                          R              N U A A R E E P P A I A R MK SA ZA RI RH
                          O                N P G I R R S R G S T U IP TL EF YO KE
                          L              A       N M M C E   K A M NU EY  F IR  D
                          M              R C T T T     A A T       T MS O  CI  V
                          N              R R P P E   V N O P         SI F  ET  L                   1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2
                          T                D E F E R   I     E         S     Y  E 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7

UNIV OF WIS AT MILWAUKEE  5 IBM1401G   1 Y N Y Y N N N N 4 2         3  3  7  1  3 P P O O N N N N O N P O N N O O N N O O N N O O O N N

WIS ST UNIV-EAU CLAIRE    3 BUR3500    1 N N N N N N N N 3 2         3  3 22  3  3 O N N O P P N P O P O O P O N P P P O O P P O O O P N

WIS ST UNIV-LA CROSSE     3 IBM1401    1 Y N N Y N N Y N 0 2 0 0  4  3 11  1  3 O N O O O P N N O O O O N N N O N N O O N O O O O O N

WIS ST UNIV-OSHKOSH       4 IBM360-40  1 Y N Y Y N Y N N 4 5 0 0  3  3 22  2  3 O N N N N N N N O N P O O O N O P O P O N N P O N O N

WIS ST UNIV-PLATTEVILLE   3 IBM1401    1 Y N Y Y N N N N 2 2 0 0  3  3  5  3  1 O N N O N N N N O N O O N O N N N N O O N O O O O N N

WIS ST UNIV-RIVER FALLS   2 IBM1620    1 Y N N Y N N N N 0 2 0 0  3  3  5  1  2 O P N N P O N N O P O O P O P P P P N O N N O O O P N

WIS ST UNIV-STEVNS POINT  3 IBM1401    1 Y N N Y N N N N   2      2  3  7  2  2 N N N O N P N N O N P O P N O O P P O O N N O P O O N

WIS ST UNIV-WHITEWATER    3 IBM360-25  1 Y N Y Y N N N N 2 3 0 0  3  3 10  1  2 O N O O O N N P N O P O P O O N P P O O P O O O O O P

********** WYOMING

CASPER COLLEGE            2 IBM1130    1 Y N N N N N N N   1      1  3  3  1  2 O N N N N N N N O N N O O N N N N N O O P N O O P N N

UNIVERSITY OF WYOMING     3 IBM1401    1 Y N N Y N N N N 0 2 0 0  3  3 13  2  2 P P P O N P P P O P N O N O O O N N P O P P O P N P N
                            XDS5       2 Y N Y Y N N N N 2 0 0 0                                              O

********** PUERTO RICO

CATH UNIV OF PUERTO RICO  3 IBM360-20  2 Y N N N N N N N          1  3  5  2  2 O N N N N N N N N N N O N O N O N N O O N N O N O N N

UNIV PUERTO RICO-RIO PDR  6 IBM360-30  1 Y N Y Y N N N Y 5 2      3  3 21  1  2 O O O N N P P N P O N O N N O P N N P O P O O N O P N

********** CANADA

LAURENTIAN U OF SUDBURY   2 IBM  1130  1 Y N N Y N N N N   2      4  3 12  1  1 P N N O N N N N N N N O O N O O N N N O N N N P N N N
                            IBM360-65  5 N N N N N N N N
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NAME OF INSTITUTION       E COMPUTER    F INPUT/OUTPUT    STORAGE AC SA SS SP MS **********************APPLICATIONS************************
                          N             I P P M P T T O O M D D D DO YN IT ER OC
                          R             N U A A R E E P P A I A R MM SA ZA RI RH
                          O               N P G I R R S R G S T U IP TL EF VO KE
                          L             A       N M M C E   K A M NU EY  F IR  D
                          M             R C T T I     A A T         T MS  O CI  U
                          N             R R P P E   V N D P   C     E SI  F ET  L                   1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2
                          T               D E E R   I     E   L     R  S     Y  E 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7

LOYOLA COLLEGE            3 UNI   9200  1 N N N N N N N N          3  3 11  2  1 P N O N N N N P N N N O N N P P N N O O O N P P N N N

MCGILL UNIVERSITY         5 IBM360-75   1 Y N Y Y N N N N 4 1 0 1  3  2 22  2  2 O P P P N N P P N O P O P N O O P P N O P P O N O N P
                            IBM1401     1 Y N Y Y N N N N 4 0 0 0
                                                                                 O                 O   O     O O       O     O   O

MCMASTER UNIVERSITY       3 IBM7040     2 Y N Y Y N N N N 4 2      3  3 10  3  4 O O O O N N N O O N N O N N O O N N P O P O O P O N O
                            CDC6400     1 N N N N N N N N 4 7

MOUNT ROYAL JUNIOR COLL   2 IBM360-20   1 Y N N Y N N N N 0 0 0 0  1  5  5  1  2 O N P N N P N P P O O O N N O O P P N O O O P P O P N

QUEENS UNIVERSITY         3 IBM360-50   1 Y N Y Y N N N N 4 8      3  1  0  3  4 P N N N N P N N O N N O O N P O N N N O N O O N O N N

SENECA COLL APPLIED ARTS  2 IBM360-30   1 Y N Y Y N N N N 2 2 0 0  3  3 15  2  4 O N P O N N N O N N O O N N O O N N N O N N N N O N N

SIMON FRASER UNIVERSITY   3 IBM360-50   1 Y N Y Y Y N N N 4 12     3  1  0  5  4 P P P N N O P P N O O O P N O O P P O O P P O P O N N

SIR GEORGE WILLIAMS UNIV  4 CDC3300     1 Y N Y Y Y Y N N 6 8      3  3  6  4  3 N N N O N N N N O N O O O N P P N N N O N N O N N N N
                                                                                       O

UNIVERSITY OF ALBERTA     5 IBM360-40   1 Y N Y Y N N N N 4 4 0 0  4  3 37  4  3 P N N N N N N P P P O O N N O P N N P O O N O P O N N

UNIV OF BRITISH COLUMBIA  6 HON200      2 Y N Y Y N N N N 5        4  2 26  1  4 O N O O N N N P O O P O P N O O P P N O O N O O O N N
                            IBM360-67   1 Y N Y Y N N N N 8 16 0 1

UNIVERSITY OF CALGARY     4 IBM360-50   1 Y N Y Y N N N N 4 3 0 0  3  4 26  1  4 O N N N N N N O O N O O P N P O P O N O O P O P O N N
                            IBM360-50   1 Y N N Y N N N N 4
                                                                                 O             O O   O O       O   O   O O   O   O

UNIVERSITY OF GUELPH      3 IBM360-50   1 Y N Y Y N N N N 4 8      3  1 75  1  4 O P O N P N N P O N P O P N O O P P O O P O P P P N N

UNIVERSITY OF LETHBRIDGE  2 IBM360-20   4 Y N N N N N N N   2      6  3  0  3  5 P N N N N N N N P N O O N N N P N N N O N N O P P P P

UNIVERSITY OF MANITOBA    4 IBM1401     1 Y N Y Y N N N N 4 0 0 0  4  3 20  1  3 O N O N N N N O O N N O P O N O P P O O O N O P O P N
                            IBM360-40   1 Y N Y Y N N N N 4 2 0 0

UNIVERSITY OF OTTAWA      3 IBM360-65   2 Y N Y Y N N N N 7 11 0 1  0  3 32  0  4 P P P P N N N N N N N O O N P P P P P O P P P P P P P

UNIV OF SASK-REGINA       3 IBM360-40   1 Y N Y Y N N N N 2 4      3  1  0  3  3 P N N N N N N N N N O O N N N P N N N O N N O N N N N
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NAME OF INSTITUTION       E COMPUTER   F  INPUT/OUTPUT   STORAGE AC SA SS SP WS *******************APPLICATIONS*******************
                          N            I P P M P T T O O M D D D DO YM IT ER OC
                          R            N U A A R E E P P A I A R MM SA ZA RI RH
                          O              N P G I R R S R G S T U IP TL EF VO KE
                          L            A       N M M C E   K A M NU EY  F IR  D
                          M            R C T T T     A A T        T MS O  CI  U
                          N            R R P P E   Y N D P   C    E SI F  ET  L                   1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2
                          T              D E E R   I     E   L    R  S     Y  E 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7

UNIV OF SASK-SASKATOON    4 IBM360-50  1 Y N Y Y N N N N 4 8      3  3  6  1  3 P P P N N N N P P N O O P N O O P P N O N N O P O N N

UNIVERSITY OF VICTORIA    3 IBM360-44  1 Y N Y Y N N N N 4 6 0 0  3  1 36  3  4 N N N N N O N P O P O O N N P O N N N O N N O N O N N

UNIVERSITY OF WATERLOO    4 IBM360-75  2 Y N Y Y N N N N 8 24 1 1  3  1 31  1  1 O O O N O O P O O O O O N N O O N N O O O O O O N O N

UNIV OF WESTERN ONTARIO   4 IBM360-40  1 Y N Y Y Y Y N N 3 8 0 0  4  3 29  3  4 O O O O N N N O O N N O P N O O P O O O P O O O P O O

WATERLOO LUTHERAN UNIV    2 IBM1401    4 Y N Y Y N N N N 2        4  5  0  3  2 O N N N N N N N O N N O N N O O N N N O N N O N O N N
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APPENDIX D

RESPONSE OF INSTITUTIONS NOT USING COMPUTERS

	NAME OF INSTITUTION	ENROLLMENT	COMPUTER ON CAMPUS	PLAN TO USE COMPUTER	MODEL COMPUTER PLANNED
ALABAMA	ATHENS COLLEGE	2	NO	NO	
	HUNTINGDON COLLEGE	1	YES	NO	
	JACKSONVILLE STATE UNIV	3	NO	YES	
	MOBILE COLLEGE	1	NO	NO	
	NORTHEAST STATE JR COLL	1	NO	NO	
	SACRED HEART COLLEGE	1	NO	YES	
	SOUTHEASTERN BIBLE COLL	1	NO	NO	
	STILLMAN COLLEGE	1	YES	YES	IBM1130
	WALKER COLLEGE	1	NO	NO	
ALASKA	ALASKA METHODIST UNIV	1	NO	YES	IBM 1130
	SHELDON JACKSON JR COLL	1	YES	YES	IBM1130
ARIZONA	THNDRBRD GRD SC INATL MG	1	YES	NO	
ARKANSAS	ARK AGRIC & MECH COLL	2	NO	NO	
	ARKANSAS COLLEGE	1	NO	NO	
	HARDING COLLEGE	1	NO	NO	
	HENDRIX COLLEGE	1	YES	YES	IBM1320
	JOHN BROWN UNIVERSITY	1	NO	NO	
	OUACHITA BAPTIST UNIV	2	NO	NO	
	PHILANDER SMITH COLLEGE	1	NO	YES	
	SOUTHERN BAPTIST COLLEGE	2	NO	NO	
CALIFORNIA	AZUSA PACIFIC COLLEGE	1	NO	YES	IBM1620
	BETHANY BIBLE COLLEGE	1	NO	NO	
	CALIF BAPTIST COLLEGE	1	NO	NO	
	CALIF CONCORDIA COLLEGE	1	NO	NO	
	CALIF LUTHERAN COLLEGE	2	NO	NO	
	CA ST COL-SAN BERNARDINO	2	NO	YES	UNI9200
	COLEGE OF NOTRE DAME	1	NO	NO	
	DOM COLL OF SAN RAFAEL	1	NO	NO	
	FULLER THEOL SEMINARY	1	NO	NO	
	GLDN GATE BAPT THEO SEM	1	NO	NO	
	GOLDEN GATE COLLEGE	2	NO	YES	
	IMMACULATE HEART COLLEGE	1	NO	NO	
	LA VERNE COLLEGE	2	YES	YES	IBM
	L A BAPT COL & THEOL SEM	1	NO	NO	
	L A COLLEGE OF OPTOMETRY	1	NO	NO	
	MARYMOUNT COLLEGE	1	NO	NO	
	MILLS COLLEGE	1	NO	NO	
	MOUNT ST MARYS COLLEGE	2	NO	NO	
	PACIFIC SCH OF RELIGION	1	NO	NO	
	PASADENA COLLEGE	2	NO	YES	
	ST JOHNS UNIVERSITY	1	NO	NO	
	SCRIPPS COLLEGE	1	NO	NO	
	SIMPSON BIBLE COLLEGE	1	NO	NO	
	SOUTHERN CALIF COLLEGE	1	NO	NO	
	STANISLAUS STATE COLLEGE	2	NO	YES	UNI9200-2
	UNIVERSITY OF JUDAISM	1	NO	NO	
	UNIVERSITY OF REDLANDS	2	YES	NO	
	UNIVERSITY OF SAN DIEGO	2	NO	NO	
	WESTERN BAPT BIBLE COLL	1	NO	NO	
	WESTMONT COLLEGE	1	NO	YES	IBM1130

	NAME OF INSTITUTION	ENROLLMENT	COMPUTER ON CAMPUS	PLAN TO USE COMPUTER	MODEL COMPUTER PLANNED
	WHITTIER COLLEGE	2	YES	NO	
COLORADO	COLORADO SCH OF MINES	2	YES	YES	SDSIC4000
	CNSRVTIV BAPT THEOL SEM	1	NO	NO	
	FORT LEWIS COLLEGE	2	NO	YES	IBM360-30
	NORTHEASTERN JR COLLEGE	2	NO	NO	
	ST THOMAS SEMINARY	1	NO	NO	
	TEMPLE BUELL COLLEGE	2	NO	NO	
CONNECTICUT	ALBERTUS MAGNUS COLLEGE	1	NO	NO	
	ANNHURST COLLEGE	1	NO	NO	
	FAIRFIELD UNIVERSITY	2	YES	YES	IBM1130
	HARTFORD SEM FOUNDATION	1	NO	NO	
	MATTATUCK COMM COLLEGE	2	NO	YES	
	MOUNT SACRED HEART COLL	1	NO	NO	
	SAINT ALPHONSUS COLLEGE	1	NO	NO	
	SAINT BASILS COLLEGE	1	NO	NO	
	SAINT THOMAS SEMINARY	1	NO	NO	
	U OF CONN-SCHOOL OF LAW	1	NO	NO	
DISTRICT OF COLUMBIA	DUNBARTON COL HOLY CROSS	1	NO	NO	
	WASHINGTON BIBLE COLLEGE	1	NO	NO	
FLORIDA	BETHUNE-COOKMAN COLLEGE	2	NO	NO	
	COLLEGE OF ORLANDO	1	NO	NO	
	FLORIDA COLLEGE	1	NO	YES	
	FLORIDA PRESBYT COLL	1	NO	YES	IBM
	FLORIDA SOUTHERN COLLEGE	2	NO	NO	
	LAKE-SUMTER JR COLLEGE	1	YES	YES	IBM1130
	MARYMOUNT COLLEGE	1	NO	NO	
	NEW COLLEGE	1	YES	NO	
	NOVA UNIVERSITY	1	YES	YES	IBM1130
GEORGIA	ABRAHAM BALDWIN COLLEGE	2	NO	YES	UNI9200
	ALBANY JUNIOR COLLEGE	2	NO	NO	
	ALBANY STATE COLLEGE	2	NO	YES	IBM1401
	ARMSTRONG STATE COLLEGE	2	YES	YES	
	ATLANTA CHRISTIAN COLL	1	NO	NO	
	AUGUSTA COLLEGE	2	NO	YES	IBM1130
	BERRY COLLEGE	2	NO	YES	IBM360-20
	BRENAU COLLEGE	1	NO	NO	
	BRUNSWICK JUNIOR COLLEGE	1	NO	NO	
	COLUMBUS COLLEGE	2	NO	NO	
	FORT VALLEY STATE COLL	2	NO	NO	
	GA INST TECH-SO TEC INST	2	YES	YES	IBM360-40
	KENNESAW JUNIOR COLLEGE	2	YES	NO	
	LAGRANGE COLLEGE	1	NO	NO	
	MACON JUNIOR COLLEGE	1	NO	NO	
	NORMAN COLLEGE	1	NO	NO	
	NORTH GEORGIA COLLEGE	2	YES	NO	
	PAINE COLLEGE	1	NO	NO	
	REINHARDT COLLEGE	1	NO	NO	
	SHORTER COLLEGE	1	NO	NO	
	SOUTH GEORGIA COLLEGE	2	NO	NO	
	TIFT COLLEGE	1	NO	NO	

	NAME OF INSTITUTION	ENROLLMENT	COMPUTER ON CAMPUS	PLAN TO USE COMPUTER	MODEL COMPUTER PLANNED
	TOCCOA FALLS INSTITUTE	1	NO	NO	
	VALDOSTA STATE COLLEGE	2	NO	YES	
	WESLEYAN COLLEGE	1	YES	NO	
	WOMENS COLL OF GEORGIA	2	NO	NO	
HAWAII	CHURCH COLLEGE OF HAWAII	2	YES	YES	IBM 1120
	MAUNA OLU COLLEGE	1	NO	NO	
	U HA CNT CULTETECH INTC	1	YES	YES	IBM360-65
IDAHO	COLLEGE OF SOUTHRN IDAHO	2	NO	NO	
	NORTHWEST NAZARENE COLL	2	YES	NO	
ILLINOIS	AURORA COLLEGE	2	YES	NO	
	BLACKBURN COLLEGE	1	NO	NO	
	CHICAGO COLL OSTEOPATHY	1	YES	NO	
	CHICAGO-KENT COLL OF LAW	1	NO	NO	
	CHICAGO MEDICAL SCHOOL	1	YES	YES	IBM360-50
	EUREKA COLLEGE	1	NO	YES	IBM
	FELICIAN COLLEGE	1	NO	NO	
	GREENVILLE COLLEGE	1	NO	NO	
	ILLINOIS COLLEGE	1	NO	NO	
	ILL COLLEGE OF OPTOMETRY	1	NO	NO	
	JUDSON COLLEGE	1	NO	NO	
	KENDALL COLLEGE	2	YES	YES	GE 255
	LINCOLN COLLEGE	1	NO	NO	
	MACMURRAY COLLEGE	1	YES	NO	
	MARYKNOLL COLLEGE	1	NO	NO	
	MCKENDREE COLLEGE	1	NO	NO	
	MILLIKIN UNIVERSITY	2	NO	NO	
	MUNDELEIN COLLEGE	2	YES	NO	
	PESTALOZZI FROEBEL TECH	1	NO	NO	
	QUINCY COLLEGE	2	NO	YES	
	ROBERT MORRIS COLLEGE	1	NO	NO	
	ROCKFORD COLLEGE	2	NO	YES	
	SAINT DOMINIC COLLEGE	1	NO	NO	
	ST PROCOPIUS COLLEGE	1	NO	YES	
	SCH OF ART INST CHICAGO	2	YES	YES	REM9200
	SHERWOOD MUSIC SCHOOL	1	NO	NO	
	SPRINGFIELD COLL IN ILL	1	NO	NO	
	TRINITY EVANGEL DIVIN SC	1	NO	YES	IBM360-30
INDIANA	CHRISTIAN THEOL SEMINARY	1	NO	NO	
	CONCORDIA SENIOR COLLEGE	1	NO	NO	
	FT WAYNE BIBLE COLLEGE	1	NO	NO	
	IND UNIV-SO BEND CAMPUS	2	NO	YES	
	SAINT BENEDICT COLLEGE	1	NO	NO	
	SAINT MEINRAD SEMINARY	1	NO	NO	
IOWA	CLARKE COLLEGE	1	YES	YES	IBM 1130
	COLL OSTEOPATH MEDESURG	1	NO	NO	
	FAITH BAPTIST BIBLE COLL	1	NO	NO	
	GRACELAND COLLEGE	2	NO	YES	
	GRAND VIEW COLLEGE	2	NO	NO	
	LORAS COLLEGE	2	YES	YES	IBM360-65
	MOUNT MERCY COLLEGE	1	NO	NO	

	NAME OF INSTITUTION	ENROLLMENT	COMPUTER ON CAMPUS	PLAN TO USE COMPUTER	MODEL COMPUTER PLANNED
	MOUNT ST CLARE COLLEGE	1	NO	NO	
	OTTUMWA HEIGHTS COLLEGE	1	NO	NO	
	PALMER JUNIOR COLLEGE	1	NO	NO	
	SAINT AMBROSE COLLEGE	2	YES	NO	
	SIMPSON COLLEGE	1	NO	NO	
	UNIVERSITY OF DUBUQUE	2	NO	NO	
	WARTBURG COLLEGE	2	NO	NO	
KANSAS	CENTRAL BAPT THEOL SEMN	1	NO	NO	
	COFFEYVILLE COMM JR COLL	1	NO	NO	
	COLLEGE OF EMPORIA	2	NO	NO	
	DODGE CITY COMM JR COLL	1	NO	YES	IBM360-20
	HESSTON COLLEGE	1	NO	NO	
	HUTCHINSON COMM JR COLL	2	YES	YES	IBM1420
	MIDWEST INST OF BUS AD	1	NO	NO	
	MILTONVALE WESLEYAN COLL	1	NO	NO	
	OTTAWA UNIVERSITY	2	NO	YES	IBM 1130
	SAINT JOHNS COLLEGE	1	NO	NO	
	SAINT MARY COLLEGE	1	NO	NO	
	ST MARY OF THE PLAINS CO	1	NO	NO	
	SOUTHWESTERN COLLEGE	1	NO	YES	IBM360-20
KENTUCKY	BRESCIA COLLEGE	2	NO	NO	
	CAMPBELLSVILLE COLLEGE	1	NO	NO	
	CENTRE COLL OF KENTUCKY	1	NO	NO	
	CUMBERLAND COLLEGE	2	NO	NO	
	GEORGETOWN COLLEGE	2	YES	NO	
	KENTUCKY STATE COLLEGE	2	NO	YES	IBM
	KENTUCKY WESLEYAN COLL	1	NO	YES	IBM
	PIKEVILLE COLLEGE	1	NO	NO	
	ST CATHERINE COLLEGE	1	NO	NO	
	UNION COLLEGE	1	NO	NO	
LOUISIANA	DILLARD UNIVERSITY	1	NO	NO	
	LOUISIANA COLLEGE	1	NO	NO	
	LA ST UNIV-ALEXANDRIA	1	NO	NO	
	LOUISIANA ST UNIV-EUNICE	1	NO	YES	
	NEW ORLEANS BAPT THEOL S	1	NO	NO	
	ST MARYS DOMINICAN COLL	1	NO	NO	
	SOUTHERN UNIV-NEW ORLEAN	2	NO	NO	
MAINE	AROOSTOOK STATE COLLEGE	1	NO	NO	
	BATES COLLEGE	2	YES	NO	
	COLBY COLLEGE	2	NO	YES	IBM
	NASSON COLLEGE	1	NO	NO	
	RICKER COLLEGE	1	NO	NO	
	SAINT FRANCIS COLLEGE	2	NO	YES	
	SAINT JOSEPHS COLLEGE	1	NO	NO	
MARYLAND	COLUMBIA UNION COLLEGE	1	NO	NO	
	HAGERSTOWN JR COLLEGE	2	NO	NO	
	HOOD COLLEGE	1	NO	NO	
	JNS HPKNS SC AD INTL STD	1	NO	NO	
	LOYOLA COLLEGE	2	NO	YES	IBM 1130
	MARYLAND STATE COLLEGE	1	NO	YES	

	NAME OF INSTITUTION	ENROLLMENT	COMPUTER ON CAMPUS	PLAN TO USE COMPUTER	MODEL COMPUTER PLANNED
	MOUNT PROVIDENCE JR COLL	1	NO	NO	
	MOUNT ST MARYS COLLEGE	2	NO	YES	IBM
	SAINT JOHNS COLLEGE	1	NO	NO	
	SAINT JOSEPH COLLEGE	1	YES	YES	IBM
	ST MARYS COLLEGE OF MD	1	YES	YES	HON201-01
	VILLA JULIE COLLEGE	1	NO	NO	
MASSACHUSETTS	AMER INTERNATNL COLLEGE	2	NO	NO	
	BENTLEY COLL ACCT&FINAN	2	YES	YES	IBM 1130
	BERKSHIRE CHRISTIAN COLL	1	NO	NO	
	BRADFORD JUNIOR COLLEGE	1	NO	NO	
	BRISTOL COMM COLLEGE	2	NO	NO	
	BURDETT COLLEGE	1	NO	NO	
	CARDINAL CUSHING COLLEGE	1	NO	NO	
	EASTERN NAZARENE COLLEGE	1	YES	NO	
	ENDICOTT JUNIOR COLLEGE	1	NO	NO	
	GORDON COLLEGE	1	NO	NO	
	LESLEY COLLEGE	1	NO	NO	
	MASS ST COLL-BRIDGEWATER	2	NO	YES	IBM360-20
	MASS STATE COLL-SALEM	2	NO	YES	
	MOUNT IDA JUNIOR COLLEGE	1	NO	NO	
	NEW ENGLAND CONSERV MUSC	1	NO	NO	
	NEWTON COLL SACRED HEART	1	YES	NO	
	SIMMONS COLLEGE	2	NO	YES	
	SUFFOLK UNIVERSITY	2	NO	YES	
	WENTWORTH INSTITUTE	2	YES	NO	
	WHEELOCK COLLEGE	1	NO	NO	
MICHIGAN	AQUINAS COLLEGE	2	NO	NO	
	CLEARY COLLEGE	1	NO	NO	
	CONCORDIA LUTH JR COLL	1	NO	NO	
	DETROIT BIBLE COLLEGE	1	NO	NO	
	GRAND RAPIDS BAPT BIBLE	1	NO	NO	
	GRAND VALLEY STATE COLL	2	NO	YES	
	HENRY FORD COMM COLLEGE	4	NO	NO	
	HIGHLAND PARK COLLEGE	2	NO	YES	IBM360-30
	HILLSDALE COLLEGE	2	YES	YES	
	LAKE SUPERIOR STATE COLL	2	YES	YES	IBM1130
	MADONNA COLLEGE	1	NO	YES	
	MARYGROVE COLLEGE	1	NO	NO	
	MERRILL-PALMER INSTITUTE	1	NO	NO	
	MICH CHRISTIAN JR COLL	1	NO	NO	
	NAZARETH COLLEGE	1	NO	NO	
	OLIVET COLLEGE	1	NO	NO	
	SACRED HEART SEMINARY	1	NO	NO	
	SAINT MARYS COLLEGE	1	NO	NO	
	SIENA HEIGHTS COLLEGE	1	NO	YES	
MINNESOTA	BETHANY LUTHERAN COLLEGE	1	NO	NO	
	HAMLINE UNIVERSITY	2	NO	YES	UNI 9200
	MARTIN LUTHER COLLEGE	1	NO	NO	
	SAINT PAUL BIBLE COLLEGE	1	NO	NO	
	UNIV OF MINN-TECH INST	1	NO	YES	IBM1401

	NAME OF INSTITUTION	ENROLLMENT	COMPUTER ON CAMPUS	PLAN TO USE COMPUTER	MODEL COMPUTER PLANNED
MISSISSIPPI	BELHAVEN COLLEGE				
	MARY HOLMES COLLEGE	1	NO	NO	
	MILLSAPS COLLEGE	1	YES	NO	
	UNIV OF MISS-SCH OF MED	1	YES	NO	
MISSOURI	AVILA COLLEGE	1	YES	NO	
	CALVARY BIBLE COLLEGE	1	NO	NO	
	CARDINAL GLENNON COLLEGE	1	NO	NO	
	CENTRAL BIBLE COLLEGE	1	NO	NO	
	CHRISTIAN COLLEGE	1	NO	NO	
	CONCORDIA SEMINARY	1	NO	NO	
	COTTEY COLLEGE	1	NO	NO	
	EAST CENTRAL JR COLLEGE	1	NO	YES	IBM
	IMMACULATE CONCEPTION SM	1	NO	NO	
	JEFFERSON COLLEGE	1	NO	NO	
	KANSAS CITY COLL-OST&SUR	2	NO	NO	
	KEMPER MILITARY SCH&COLL	1	NO	NO	
	KIRKSVILLE COLL-OST&SURG	1	NO	NO	
	LINDENWOOD COLL / WOMEN	1	YES	NO	
	MISSOURI BAPTIST COLLEGE	1	YES	NO	
	MISSOURI VALLEY COLLEGE	1	NO	NO	
	NOTRE DAME COLLEGE	1	YES	NO	
	SCHOOL OF THE OZARKS	1	NO	NO	
	ST LOUIS COL OF PHARMACY	1	NO	YES	IBM1130
	ST LOUIS INST OF MUSIC	1	NO	NO	
	ST MARYS COLL OF OFALLON	1	NO	NO	
	ST MARYS SEMINARY	1	NO	NO	
	SAINT PAULS COLLEGE	1	NO	NO	
	SOUTHWEST BAPT COLLEGE	1	NO	NO	
	WEBSTER COLLEGE	2	NO	NO	
	WENTWORTH MIL ACAD&JR CO	2	YES	YES	
	WILLIAM JEWELL COLLEGE	1	NO	NO	
	WILLIAM WOODS COLLEGE	1	NO	NO	
MONTANA	WESTERN MONTANA COLLEGE	1	NO	YES	NCR 100
NEBRASKA	BELLEVUE COLLEGE	2	NO	NO	
	CHADRON STATE COLLEGE	1	NO	NO	
	COLLEGE OF SAINT MARY	2	NO	YES	IBM1130
	DANA COLLEGE	1	NO	NO	
	GRACE BIBLE INSTITUTE	1	NO	NO	
	HASTINGS COLLEGE	1	NO	YES	HON 1400
	NEBRASKA WESTERN COLLEGE	1	YES	YES	
	NORFOLK JUNIOR COLLEGE	1	NO	YES	
	PERU STATE COLLEGE	1	NO	NO	
	WAYNE STATE COLLEGE	2	NO	NO	
NEW HAMPSHIRE	BELKNAP COLLEGE	2	NO	NO	
	COLBY JUNIOR COLLEGE	1	NO	NO	
	FRANKLIN PIERCE COLLEGE	1	YES	YES	GE 635
	MOUNT SAINT MARY COLLEGE	2	NO	YES	
	NATHANIEL HAWTHORNE COLL	1	NO	NO	
	NEW ENGLAND COLLEGE	1	NC	NO	
NEW JERSEY	BLOOMFIELD COLL&SEMINARY	1	YES	YES	
		2	NO	YES	IBM360

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	CENTENARY COLL FOR WOMEN	1	NO	NO	
	COLLEGE OF ST ELIZABETH	1	NO	YES	IBM360-67
	CUMBERLAND COUNTY COLL	2	NO	NO	
	GEORGIAN COURT COLLEGE	1	NO	NO	
	MONMOUTH COLLEGE	3	YES	YES	HON120
	N J COLLEGE OF MED&DENT	1	NO	YES	
	UPSALA COLLEGE	2	NO	YES	IBM 1130
	WESTMINSTER CHOIR COLL	1	NO	YES	IBM360-67
NEW MEXICO	COLLEGE OF ARTESIA	1	NO	NO	
	COLLEGE OF SANTA FE	2	NO	NO	
	UNIV OF ALBUQUERQUE	2	YES	YES	IBM1620
NEW YORK	ACADEMY OF AERONAUTICS	2	YES	YES	
	ALBANY COLL OF PHARMACY	1	NO	NO	
	BARD COLLEGE	1	NO	NO	
	BENNETT COLLEGE	1	NO	YES	
	CAZENOVIA COLLEGE	1	NO	NO	
	CUNY-JOHN JAY COLL OF CJ	2	NO	YES	IBM360-40
	CUNY-MT SINAI SCH OF MED	1	YES	YES	IBM360-40
	CUNY-YORK COLLEGE	2	NO	YES	
	COLL OF MOUNT ST VINCENT	1	NO	NO	
	COLLEGE OF NEW ROCHELLE	1	NO	NO	
	COLLEGE OF SAINT ROSE	2	NO	NO	
	CONCORDIA JUNIOR COLLEGE	1	NO	NO	
	COOPER UNION	2	YES	NO	
	D'YOUVILLE COLLEGE	2	NO	NO	
	DOMINICAN COL OF BLAUVET	1	NO	NO	
	EISENHOWER COLLEGE	1	NO	NO	
	FINCH COLLEGE	1	NO	NO	
	GOOD COUNSEL COLLEGE	1	NO	NO	
	HAMILTON COLLEGE	1	NO	NO	
	HILBERT COLLEGE	1	NO	NO	
	HOUGHTON COLL-BUFFALO	1	NO	NO	
	KINGS COLLEGE	1	NO	NO	
	LADYCLIFF COLLEGE	1	NO	NO	
	LONG ISLAND UNIVERSITY	3	YES	YES	IBM1130
	L I U-SOUTHAMPTON CAMPUS	2	YES	NO	
	L I U-ZECKENDORF CAMPUS	3	YES	YES	IBM1130
	MANHATTEN SCH OF MUSIC	1	NO	NO	
	MANHATTANVILLE COLLEGE	2	NO	NO	
	MARIA REGINA COLLEGE	1	NO	NO	
	MARYMOUNT COLLEGE	2	NO	YES	IBM1130
	MARYMOUNT MANHATTAN COLL	1	YES	YES	IBM360-30
	MOUNT ST MARY COLLEGE	1	NO	NO	
	NEW SCHOOL OF SOCIAL RES	4	YES	NO	
	NYACK MISSIONARY COLLEGE	1	NO	YES	
	PACKER COLLEGIATE INST	1	NO	NO	
	RUSSELL SAGE COLLEGE	2	NO	NO	
	ST JOSEPHS COLL FOR WOMN	1	NO	NO	
	SUNY-COLL AT NEW PALTZ	3	YES	YES	IBM360-20
	SUNY-JAMESTOWN COMM COLL	2	NO	YES	

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	SUNY-MARITIME COLLEGE	1	YES	YES	IBM1130
	WELLS COLLEGE	1	NO	NO	
NORTH CAROLINA	ATLANTIC CHRISTIAN COLL	2	NO	NO	
	BREVARD COLLEGE	1	NO	NO	
	CATAWBA COLLEGE	2	NO	NO	
	ELIZABETH CITY ST UNIV	2	NO	YES	IBM1130
	GUILFORD COLLEGE	2	YES	NO	
	JOHNSON C SMITH UNIV	2	NO	NO	
	LEES-MCRAE COLLEGE	1	NO	NO	
	LIVINGSTONE COLLEGE	1	NO	NO	
	LOUISBURG COLLEGE	1	NO	NO	
	MEREDITH COLLEGE	1	NO	NO	
	MITCHELL COLLEGE	1	NO	NO	
	MONTREAT-ANDERSON COLL	1	NO	NO	
	PEMBROKE STATE COLLEGE	2	NO	NO	
	PIEDMONT BIBLE COLLEGE	1	NO	NO	
	SALEM COLLEGE	1	NO	NO	
	SANDHILLS COMMUNITY COLL	2	NO	YES	IBM
	SHAW UNIVERSITY	2	YES	YES	NCRCEN100
	SO-EASTRN BAPT THEOL SEM	1	NO	NO	
	U OF N C AT ASHVILLE	1	YES	NO	
	WARREN WILSON COLLEGE	1	YES	NO	
	WILMINGTON COLLEGE	2	YES	YES	IBM 2780
	WINSTON-SALEM STATE COLL	2	NO	YES	IBM360-20
NORTH DAKOTA	DICKINSON STATE COLLEGE	2	NO	YES	IBM
	JAMESTOWN COLLEGE	1	NO	NO	
	MAYVILLE STATE COLLEGE	1	NO	NO	
	MINOT STATE COLLEGE	2	NO	YES	IBM360-20
	U OF N D-ELLENDALE CNTR	1	NO	NO	
	VALLEY CITY STATE COLL	2	NO	YES	
OHIO	ANTIOCH COLLEGE	2	NO	YES	CDC6400
	ASHLAND COLLEGE	2	NO	YES	IBM36030
	COLL MT ST JOSEPH-OHIO	1	NO	NO	
	COLLEGE OF STEUBENVILLE	2	YES	NO	
	EDGECLIFF COLLEGE	1	NO	YES	NCRCEN200
	FINDLAY COLLEGE	2	NO	YES	IBM1130
	FRANKLIN UNIVERSITY	2	NO	NO	
	HEBREW UNION COLLEGE	1	YES	NO	
	KENT ST UNIV TRUMBULL BR	1	NO	YES	BUR
	KENYON COLLEGE	1	YES	YES	IBM 1130
	LAKE ERIE COLLEGE	1	NO	NO	
	MALONE COLLEGE	1	NO	NO	
	MARY MANSE COLLEGE	1	NO	NO	
	MED COLL OF OHIO TOLEDO	1	YES	YES	
	NOTRE DAME COLLEGE	1	YES	NO	
	OHIO COLL PODIATRIC MEDI	1	NO	NO	
	OHIO DOMINICAN COLLEGE	1	NO	NO	
	PONTIFICAL COLL JOSEPHIN	1	NO	NO	
	RIO GRANDE COLLEGE	1	NO	NO	
	SAINT JOHN COLLEGE	1	NO	NO	

	NAME OF INSTITUTION	ENROLLMENT	COMPUTER ON CAMPUS	PLAN TO USE COMPUTER	MODEL COMPUTER PLANNED
	URSULINE COLLEGE	1	NO	NO	
	WILMINGTON COLLEGE	1	NO	NO	
OKLAHOMA	NORTHWESTERN ST COLLEGE	2	YES	YES	IBM
	OKLAHOMA BAPTIST UNIV	2	NO	YES	IBM 1130
	OKLAHOMA CITY UNIVERSITY	2	NO	NO	
	OKLA PANHOL ST COL OF AG	2	NO	NO	
	PHILLIPS UNIVERSITY	2	NO	YES	
	SAINT GREGORYS COLLEGE	1	NO	NO	
	SOUTHWESTERN STATE COLLE	3	YES	NO	
OREGON	CONCORDIA COLLEGE	1	NO	NO	
	MOUNT ANGEL COLLEGE	1	NO	NO	
	MULTNOMAH SCH OF BIBLE	1	NO	NO	
	NORTHWEST CHRISTIAN COLL	1	NO	NO	
	PACIFIC UNIVERSITY	2	NO	NO	
	WILLAMETTE UNIVERSITY	2	YES	YES	IBM1130
PENNSYLVANIA	ACADEMY OF NEW CHURCH	1	NO	NO	
	ALVERNIA COLLEGE	1	NO	NO	
	BEAVER COLLEGE	1	NO	NO	
	CALIFORNIA STATE COLLEG	3	NO	YES	RCA70-35
	ICARLOW COLLEGE	1	NO	NO	
	CEDAR CREST COLLEGE	1	NO	NO	
	DELA VAL COL OF SCI&AGRI	2	YES	YES	IBM401
	DICKINSON SCHOOL OF LAW	1	NO	NO	
	DROPSIE COLL-HEBREW&COGN	1	NO	NO	
	EASTERN BAPTIST COLLEGE	1	NO	NO	
	EASTERN PILGRIM COLLEGE	1	NO	NO	
	GETTYSBURG COLLEGE	2	YES	NO	
	HARCUM JUNIOR COLLEGE	1	NO	NO	
	HOLY FAMILY COLLEGE	1	NO	NO	
	IMMACULATA COLLEGE	1	NO	NO	
	KILROE SEM OF SACRED HRT	1	NO	NO	
	KUTZTOWN STATE COLLEGE	2	NO	YES	RCA70-35
	LA ROCHE COLLEGE	1	NO	NO	
	LEHIGH UNIVERSITY	3	YES	NO	
	MANOR JUNIOR COLLEGE	1	NO	NO	
	MESSIAH COLLEGE	1	YES	NO	
	MOORE COLLEGE OF ART	1	NO	NO	
	N E CHRISTIAN JR COLLEGE	1	NO	NO	
	PENN HALL JR COLLEGE	1	NO	NO	
	PENN COLL OF OPTOMETRY	1	NO	NO	
	PHILADELPHIA COLL OF ART	2	NO	YES	IBM360
	PHILADELPHIA COLL OST&ME	1	YES	NO	
	PHILADELPHIA COLL PHAR S	1	NO	NO	
	PITTSBURGH THEOL SEMNRY	1	NO	NO	
	SAINT VINCENT COLLEGE	1	YES	NO	
	SETON HILL COLLEGE	1	YES	NO	
	SWARTHMORE COLLEGE	2	YES	YES	IBM1130
	THIEL COLLEGE	2	YES	YES	NCR100
	THOMAS JEFFERSON UNIV	1	YES	YES	IBM360-30
	URSINUS COLLEGE	2	NO	NO	

	NAME OF INSTITUTION	ENROLLMENT	COMPUTER ON CAMPUS	PLAN TO USE COMPUTER	MODEL COMPUTER PLANNED
	WASHINGTON & JEFFERSON	1	NO	YES	IBM1130
	WAYNESBURG COLLEGE	2	NO	NO	
	WESTMINSTER COLLEGE	2	YES	NO	
RHODE ISLAND	BARRINGTON COLLEGE	1	NO	YES	
	RHODE ISLAND SCH DESIGN	2	NO	NO	
	ROGER WILLIAMS COLLEGE	2	NO	YES	NCR100
	SALVE REGINA COLLEGE	1	NO	YES	
	VERNON COURT JR COLLEGE	1	NO	NO	
SOUTH CAROLINA	ANDERSON COLLEGE	1	NO	NO	
	BOB JONES UNIVERSITY	2	NO	NO	
	COLLEGE OF CHARLESTON	1	NO	YES	IBM360-40
	COLUMBIA BIBLE COLLEGE	1	NO	NO	
	COLUMBIA COLLEGE	1	YES	NO	
	ERSKINE COLLEGE	1	NO	NO	
	LANCER COLLEGE	1	NO	NO	
	VOORHEES COLLEGE	1	NO	NO	
	WOFFORD COLLEGE	2	NO	NO	
SOUTH DAKOTA	DAKOTA WESLEYAN UNIV	1	NO	NO	
	GENERAL BEADLE STATE COL	2	NO	NO	
	HURON COLLEGE	1	[illegible]	NO	
	MOUNT MARTY COLLEGE	1	NO	YES	
	NORTHERN STATE COLLEGE	2	NO	NO	
	SIOUX FALLS COLLEGE	2	NO	NO	
	SOUTHERN STATE COLLEGE	2	NO	NO	
TENNESSEE	COVENANT COLLEGE	1	NO	NO	
	FREEWILL BAPT BIBLE COLL	1	NO	NO	
	LANE COLLEGE	1	NO	YES	
	LEE COLLEGE	2	NO	YES	IBM360-20
	LEMOYNE COLLEGE	1	NO	NO	
	LINCOLN MEMORIAL UNIV	1	NO	NO	
	MARTIN COLLEGE	1	NO	NO	
	MARYVILLE COLLEGE	1	YES	NO	
	MEHARRY MEDICAL COLLEGE	1	NO	YES	XERSIGMA7
	MORRISTOWN COLLEGE	1	NO	NO	
	SCARRITT COLLEGE	1	NO	NO	
	SIENA COLLEGE	1	NO	YES	IBM 1130
	SOUTHERN MISSIONARY COLL	2	YES	NO	
	TREVECCA NAZARENE COLL	1	NO	NO	
	UNIVERSITY OF THE SOUTH	1	YES	NO	
	UNIV OF TENN-MARTIN	2	NO	YES	IBM1130-2
	UNIV OF TENN-MED UNITS	2	YES	YES	IBM360-40
	WM JENNINGS BRYAN COLL	1	NO	YES	IBMSYS 3
TEXAS	BAYLOR COLL OF MEDICINE	1	NO	NO	
	BAYLOR UNIV OF DENTISTRY	1	NO	NO	
	BLINN COLLEGE	2	NO	YES	IBM1130
	DOMINICAN COLLEGE	1	NO	NO	
	EAST TEXAS BAPTIST COLL	1	NO	NO	
	FRANK PHILLIPS COLLEGE	1	NO	NO	
	HILL JUNIOR COLLEGE	1	NO	NO	
	HOUSTON BAPTIST COLLEGE	2	YES	NO	

	NAME OF INSTITUTION	ENROLLMENT	COMPUTER ON CAMPUS	PLAN TO USE COMPUTER	MODEL COMPUTER PLANNED
	HOWARD PAYNE COLLEGE	2	NO	NO	
	HUSTON TILLOTSON COLLEGE	1	NO	NO	
	INCARNATE WORD COLLEGE	2	NO	YES	NCRCEN200
	JARVIS CHRISTIAN COLLEGE	1	YES	NO	
	LAREDO JUNIOR COLLEGE	2	NO	NO	
	LUBBOCK CHRISTIAN COLL	1	NO	NO	
	SAM HOUSTON ST TEACHERS	3	YES	YES	IBM360-30
	SO-WESTRN ASSEM/GOD COLL	1	NO	NO	
	SOUTHWESTERN UNION COLL	1	NO	NO	
	SOUTHWESTERN UNIVERSITY	1	NO	NO	
	SUL ROSS STATE COLLEGE	2	NO	NO	
	TEXAS LUTHERAN COLLEGE	3	NO	YES	
	TEXAS WESLEYAN COLLEGE	2	NO	NO	
	TYLER COLLEGE	1	NO	NO	
	UNIV OF CORPUS CHRISTI	1	NO	NO	
	UNIV OF SAINT THOMAS	2	NO	NO	
	U OF TEX-MED BR-GALVESTN	1	YES	YES	IBM360-50
	U OF TEX SO-WEST MED SCH	1	YES	NO	
	WAYLAND BAPTIST COLLEGE	1	NO	NO	
UTAH	DIXIE JUNIOR COLLEGE	2	NO	NO	
	SOUTHERN UTAH ST COLLEGE	2	YES	YES	IBM 1620
VERMONT	GODDARD COLLEGE	2	NO	NO	
	GREEN MOUNTAIN COLLEGE	1	NO	NO	
	JOHNSON STATE COLLEGE	1	NO	YES	
	SAINT MICHAELS COLLEGE	2	NO	NO	
	TRINITY COLLEGE	1	NO	NO	
	WINDHAM COLLEGE	1	YES	NO	
VIRGINIA	BLUE RIDGE COMM COLLEGE	1	YES	YES	IBM1130
	FERRUM JUNIOR COLLEGE	2	NO	NO	
	FREDERICK COMMUNITY COLL	2	NO	YES	IBM
	HOLLINS COLLEGE	1	NO	NO	
	LONGWOOD COLLEGE	2	NO	YES	IBM 1130
	MARYMOUNT COLLEGE	1	NO	NO	
	RICHARD BLAND COLLEGE	1	NO	NO	
	SAINT PAULS COLLEGE	1	YES	NO	
	SHENANDOAH CONS OF MUSIC	1	NO	NO	
	SOUTHERN SEM & JR COLL	1	NO	NO	
	STRATFORD COLLEGE	1	NO	NO	
	SULLINS COLLEGE	1	NO	NO	
	U OF VA-M WASHINGTON COL	2	NO	YES	NA
	VIRGINIA INTERMONT COLL	1	NO	NO	
	VIRGINIA UNION UNIV	2	NO	NO	
WASHINGTON	NORTHWEST COLLEGE	1	NO	NO	
	ST MARTIN'S COLLEGE	1	NO	YES	IBM1401
	WALLA WALLA COLLEGE	2	NO	YES	IBM360-20
	WENATCHEE VALLEY COLLEGE	2	NO	YES	
WEST VIRGINIA	ALDERSON-BROADDUS COLL	1	YES	YES	
	BLUEFIELD STATE COLLEGE	2	NO	NO	
	CONCORD COLLEGE	2	NO	NO	
	DAVIS & ELKINS COLLEGE	1	YES	YES	IBM360

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	GLENVILLE STATE COLLEGE	2	NO	YES	IBM1130
	POTOMAC STATE COLLEGE	1	YES	NO	
	SALEM COLLEGE	2	NO	NO	
	SHEPHERD COLLEGE	2	NO	NO	
	WEST LIBERTY ST COLLEGE	2	NO	YES	NCR
	WEST VIRGINIA ST COLLEGE	2	NO	YES	
	WEST VA WESLEYAN COLLEGE	2	NO	YES	NCR615
WISCONSIN	CARDINAL STRITCH COLLEGE	1	NO	NO	
	CARTHAGE COLLEGE	2	YES	NO	
	HOLY FAMILY COLLEGE	1	NO	NO	
	INST OF PAPER CHEMISTRY	1	YES	NO	
	MARION COLL FOND DU LAC	1	NO	NO	
	MILTON COLLEGE	1	NO	NO	
	MOUNT MARY COLLEGE	1	NO	NO	
	MOUNT SENARIO COLLEGE	1	NO	NO	
	ST FRANCIS SEMINARY	1	NO	NO	
	UNIV OF WIS-MADISON	2	NO	YES	
	UNIV OF WIS AT PARKSIDE	2	NO	YES	IBM
	UNIV OF WIS-UNIV CTR SYS	2	NO	YES	IBM360-40
PUERTO RICO	INTER-AMER U PUERTO RICO	3	NO	NO	
VIRGIN ISLANDS	COLL OF THE VIRGIN ISLND	1	NO	NO	
CANADA	MOUNT ST VINCENT UNIV	1	NO	YES	IBM360-50
	NOTRE DAME UNIV OF NELSN	1	YES	YES	